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FAIRMONT STATE COLLEGE
1867
FAIRMONT W. VA.

BULLETIN
1970-1972

24

FOR YOUR INFORMATION

CORRESPONDENCE: to avoid delay correspondence should be addressed as indicated below:

- **Admissions**

  For everything concerned with the admission of students, including requests for the college catalog and other publications, academic credits, and information about fees, address:

  The Registrar and Director of Admissions

- **General College Interest and Development,** address:

  The President

- **The Faculty, Curricula, Instruction, Summer Session, Evening and Extension Classes,** address:

  Dean of Academic Affairs

- **Guidance and Counseling, Student Employment, and Placement,** address:

  The Director of Student Personnel

- **Housing,** address:

  Dean of Men or Dean of Women

- **Scholarships and Loan Information,** address:

  Chairman, Financial Aid Comm.

- **Student Accounts, Deferred Payments, and Purchases,** address:

  The Business Manager

- **Alumni Activities,** address:

  The Alumni Secretary

CATALOG: Students are urged to secure **and to retain throughout the period of their enrollment** a copy of the catalog for the year in which they entered. Fairmont State College reserves the right to change any provision or requirement of this catalog without notice.

FAIRMONT
STATE COLLEGE

Volume XCVII January 1, 1970 Number 1

FAIRMONT STATE COLLEGE
1867
FAIRMONT W. VA.

GENERAL CATALOG
1970-1972

FAIRMONT, WEST VIRGINIA
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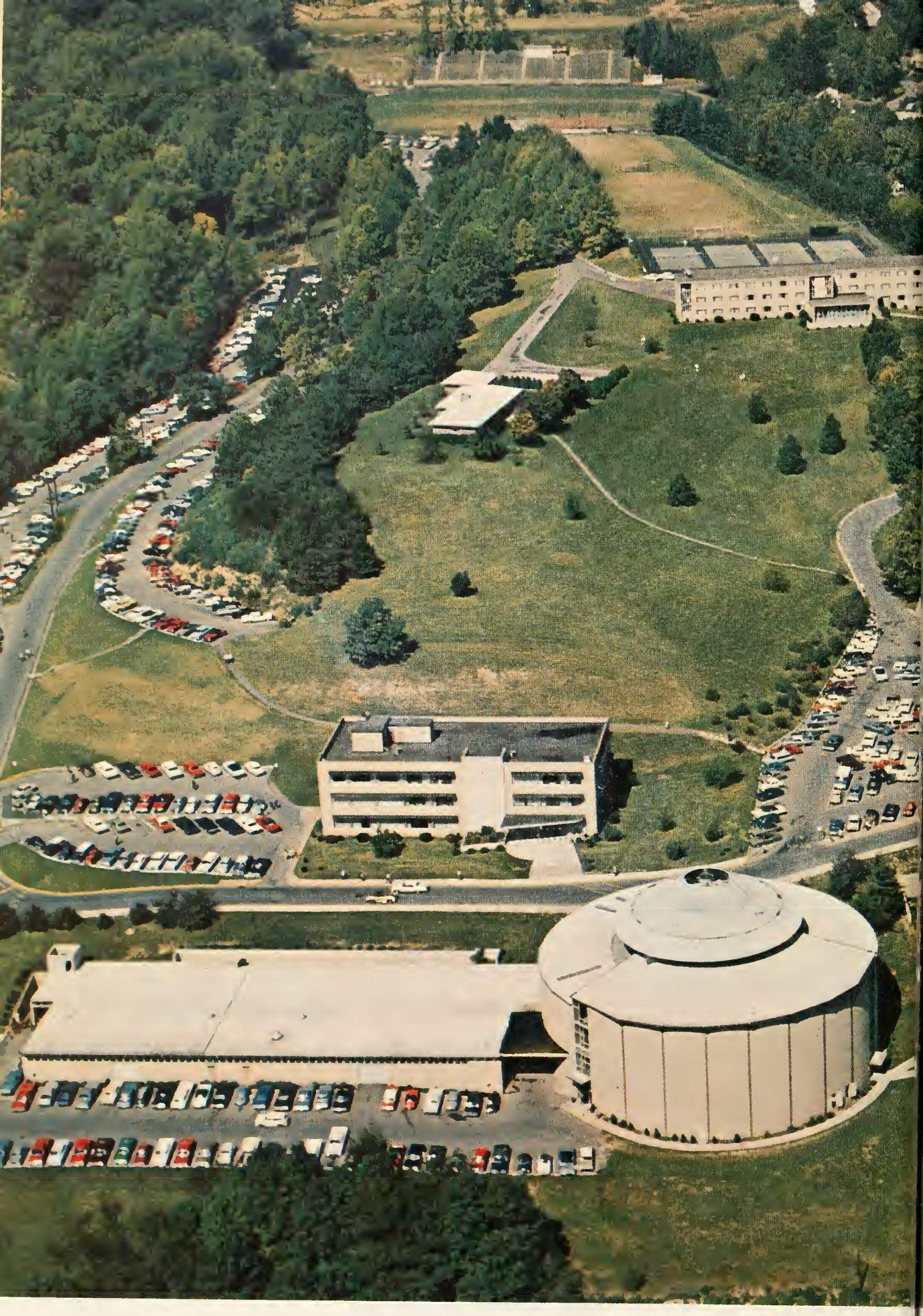
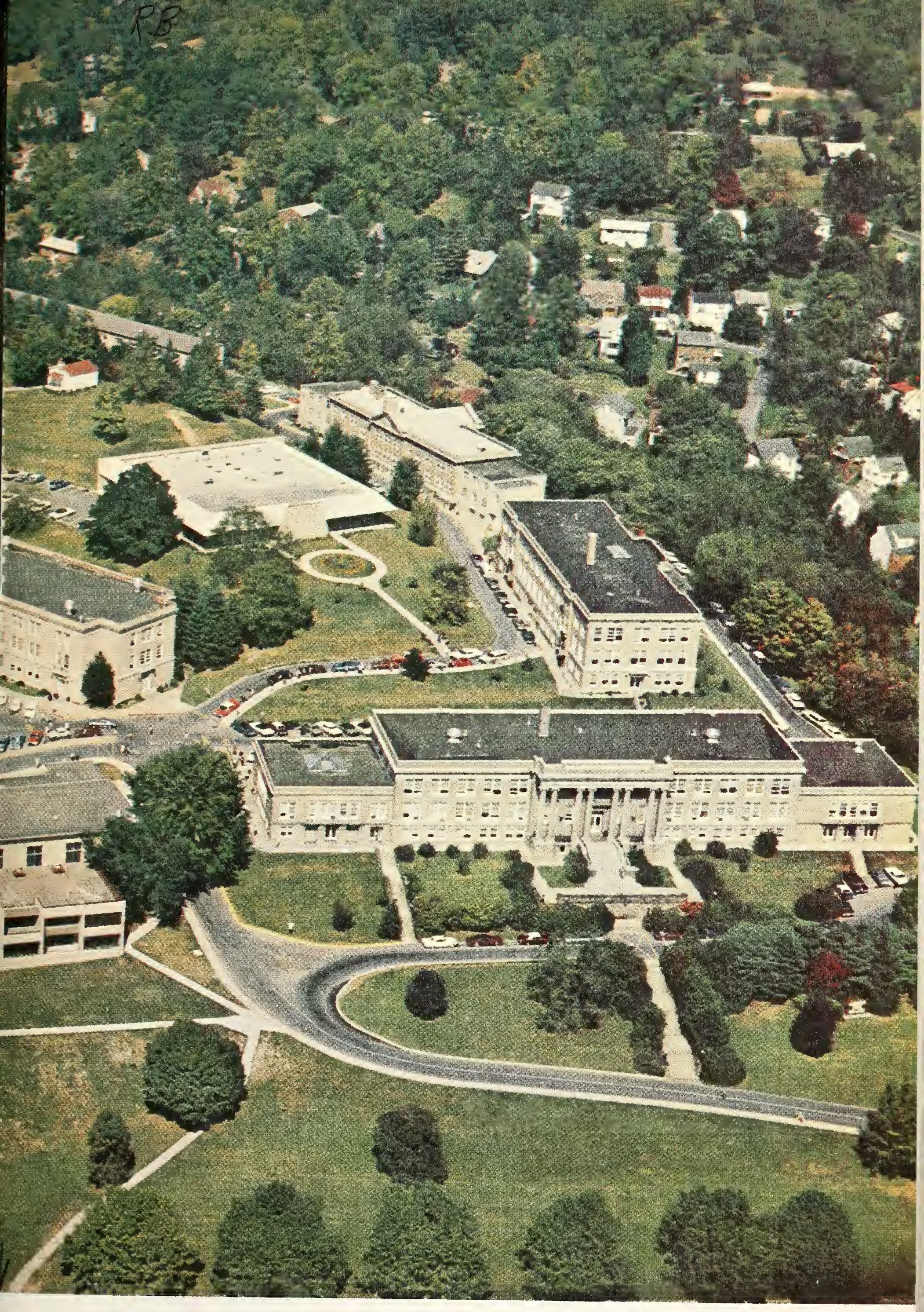
FAIRMONT STATE COLLEGE LIBRARY



THE CAMPUS BEAUTIFUL—*Fairmont State College's beautifully landscaped 8 acre campus is bordered on the west by a modern hospital and a new clinic e tending into a choice residential area. The tree-shrouded campus (see identific*

RB



ion map on following page) is served by bus lines into downtown Fairmont, less han one mile distance on State Route 19. Not completely shown in aerial view s the Field House, Morgan Hall for Women and the Garden Lane Housing units.

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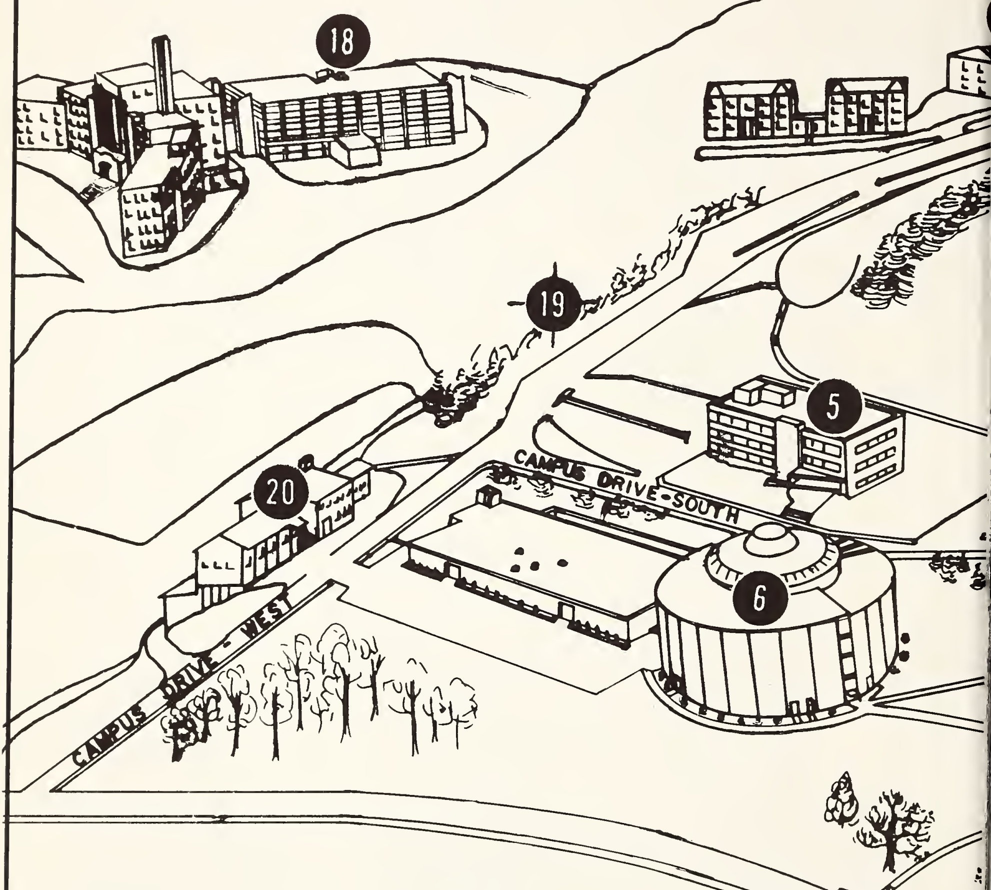
CAMPUS-GUIDE

FAIRMONT STATE COLLEGE



LEGEND

1. Administration Building
2. Old Science Building
3. Morrow Hall (Women)
4. Colebank Gym
5. Library
6. Fine & Applied Arts Building
7. Student Union
8. President's Home
9. Pence Hall (Men)
10. North Hall (Women)
11. Dining Hall
12. Rosier Field
13. Field House
14. Tennis Courts
15. One Room School Museum
16. Morgan Hall (Women)
17. Garden Lane Apartments
18. Fairmont General Hospital
19. New Hunt-Haught Science Hall
20. Maintenance Building

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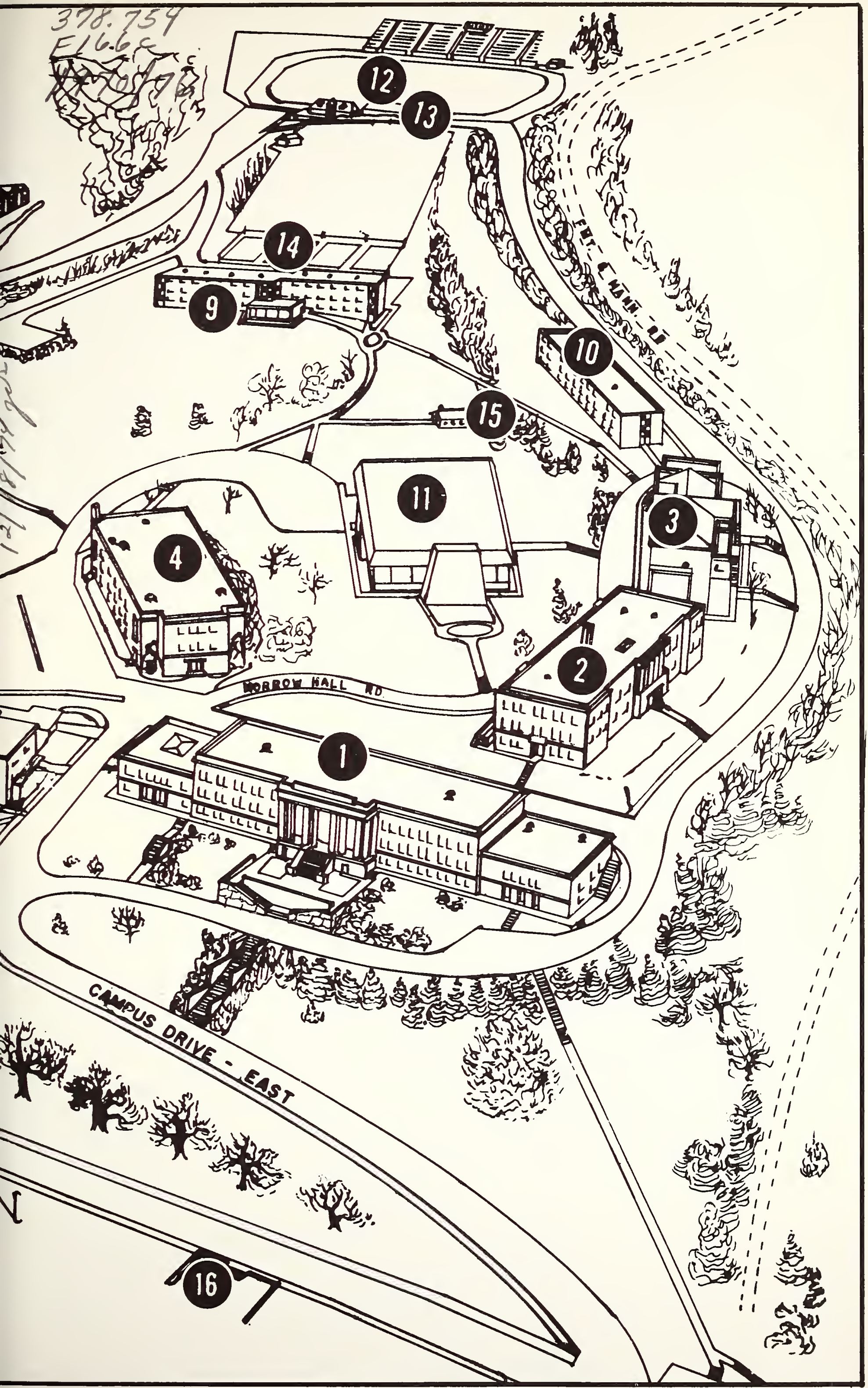
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10
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3
2
MORROW HALL RD.
1
FRT. & MANN. RD
CAMPUS DRIVE - EAST
N
16

ADMINISTRATION BUILDING—*Facing Locust Avenue and the college entrance is the Administration Building with its stately and traditional columns.*

ARTS BUILDING—*Housing the fine and applied arts divisions, the new structure is five levels high and covers over 70,000 square feet of floor space.*

DINING HALL—*With its unusual structure and design to enhance the new look on Fairmont State's campus, the food service is listed as one of the best in the state.*

LIBRARY—*The three-story modern structure is air conditioned and houses over 70,000 volumes along with comfortable study areas, film service and Learning Resources Center.*

PENCE HALL FOR MEN—*Resting on a peaceful knoll overlooking the whole campus is this modern men's hall with spacious lounges and accommodations for 132 men.*

NORTH HALL FOR WOMEN—*One of three women's dorms with modern comforts. The other two include Morrow Hall and Morgan Hall. Other housing for women includes a housing complex bordering the campus.*

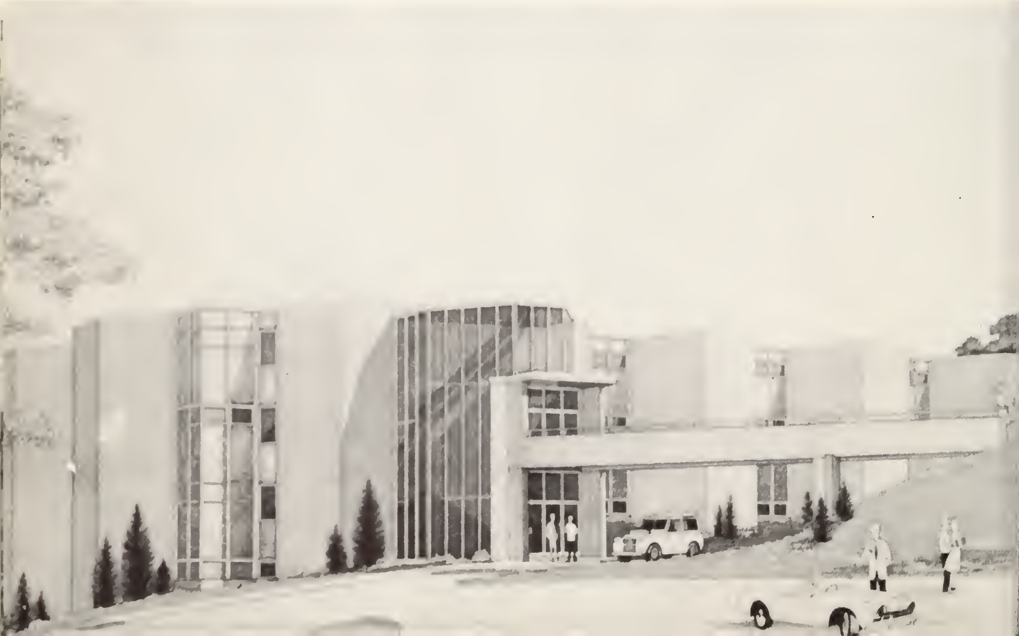
STUDENT
CENTER

STUDENT CENTER—*A busy part of campus student activity with comfortable study area, recreation, snack bar and ballroom.*

SCIENCE HALL—*Housing the departments of mathematics, natural and biological sciences, home economics and business administration. Ground was broken this fall for a large, new Science Hall.*

COLEBANK GYMNASIUM—*Housing the Physical Education program, the structure contains a large gym, swimming pool, locker areas, showers and physical education programs for men and women.*

NEW SCIENCE HALL—*Ground was broken on Nov. 21, 1969 for the new $2.94 million Hunt-Haught Science Hall. It will furnish 60,000 square feet of room space and will be finished in 18 months on the west rim of the campus.*



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CALENDAR FOR 1970 — 1971

FIRST SUMMER SESSION

June	10	Wednesday	Registration, First Summer Session
	11	Thursday	First Class, First Summer Session
	11	Thursday	Last day for registration and/or to add classes
	12	Friday	Last day for making application for summer graduation
	13	Saturday	Classes in Session
	27	Saturday	Classes in Session
July	10	Friday	First Summer Session Ends

SECOND SUMMER SESSION

July	14	Tuesday	Registration, Second Summer Session
	15	Wednesday	First Class, Second Summer Session
	15	Wednesday	Last day for registration and/or to add classes
	18	Saturday	Classes in Session
Aug.	14	Friday	Second Summer Session Ends

FALL SEMESTER

Aug.	23	Sunday	Dormitories open 8:00 a.m.
	24-25	Monday - Tuesday	Orientation
	25	Tuesday	Fall Semester Registration
	26	Wednesday	Fall Semester Classes Begin
	28	Friday	Last day for registration and/or to add classes
	29	Saturday	Institutional Testing (Sophomores)
Sept.	7	Monday	Labor Day, No Classes
Oct.	16	Friday	Mid-Semester Reports Due
	16	Friday	Last day for making application for graduation
Nov.	25	Wednesday	Thanksgiving Recess Begins 5:00 p.m.
	30	Monday	Classes Resume 8:00 a.m.
Dec.	5	Saturday	Institutional Testing (Sophomores)
	14-18	Monday - Friday	Final Examinations

SPRING SEMESTER

Jan.	10	Sunday	Dormitories open 8:00 a.m.
	11	Monday	Registration Spring Semester
	12	Tuesday	Spring Semester Classes Begin
	15	Friday	Last day for registration and/or to add classes
Mar.	5	Friday	Mid-Semester Reports Due
	5	Friday	Spring Vacation Begins 5:00 p.m.
	8-12	Monday-Friday	Classes not in Session
	15	Monday	Classes Resume 8:00 a.m.
Apr.	9	Good Friday	Classes not in Session
May	1	Saturday	Institutional Testing (Sophomores)
	10-14	Monday - Friday	Final Examinations
	15	Saturday	Commencement 10:00 a.m.

FAIRMONT STATE COLLEGE

FAIRMONT, WEST VIRGINIA

Established 1867

WEST VIRGINIA BOARD OF REGENTS

The Board of Regents has complete control over the educational, administrative, and fiscal policies of Fairmont State College.

JOHN E. AMOS, *President,* Charleston	1973
EARLE T. ANDREWS, *Vice-President,* Berkeley Springs	1973
AMOS A. BOLEN, *Secretary,* Huntington	1973
FORREST L. BLAIR, Parkersburg	1975
DAVID B. DALZELL, Moundsville	1971
ELIZABETH HARDEN GILMORE, Charleston	1971
ALBERT M. MORGAN, Morgantown	1975
OKEY L. PATTESON, Mt. Hope	1971
EDWARD H. GREENE, Huntington	1975
REX SMITH, *State Superintendent of Free Schools member ex officio,* Charleston	

Administrative Officers of the College

ESTON K. FEASTER, Ed.D., *President*
PAUL V. YOST, M.A., *Dean of Administrative Affairs*
WILLIAM P. TURNER, Ph.D., *Dean of Academic Affairs*
GEORGE E. CANNON, M.A., *Assistant Dean of Academic Affairs*
GALEN F. DULING, M.A., *Director of Teacher Education*
NEIL FRYE, M.A., *Dean of Men*
ROXY DILLON, M.A., *Dean of Women*
OTIS H. MILAM, JR., M.A., *Registrar, Director of Admissions*
GARY McCUTCHEON, M.A., *Assistant Registrar and Director of Admissions*
HUNTER J. CONRAD, M.A., *Director of Student Personnel*
PETER E. PELL, M.A., *Assistant Director of Student Personnel*
EARL N. STRAIGHT, M.A., *Director of Public Relations and Alumni Secretar*
JOSEPHINE L. ROSIER, B.S.L.S., *Librarian*
JAMES A. HALES, M.A., *Director of Learning Resources Center*
WILFORD R. WILSON, M.A., *Director of Athletics*
HOMER W. COX, B.S., *Business Manager*
ALVA J. RICE, B.S., *Assistant Business Manager*
HARRY C. FLEMING, M.D., *Director of Student Health Service*
EDGAR L. WILLIAMS, JR., B.S., *Superintendent of Buildings and Grounds*
FRANK PULICE, *Director of Food Service*
LIONEL O. BICKEL, M.A., *Manager of Book Store*

GENERAL INFORMATION

LOCATION

Fairmont State College is a coeducational institution of higher education located in Fairmont, West Virginia. Fairmont is a city of about 30,000 population, the county seat of Marion County, and the center of the coal industry of northern West Virginia. It is the operating headquarters and home of a number of large coal, utility, and manufacturing concerns.

PURPOSE AND AIMS

Fairmont State College is a four-year state college whose purpose is to serve its area and the state at large by offering such undergraduate curricula in general and vocational education as the West Virginia Board of Regents may approve.

Under this board directive, Fairmont State College offers curricula for the preparation of elementary and high school teachers and curricula leading to degrees in the liberal arts and sciences. Besides the courses terminating with the granting of degrees, Fairmont State College offers two-year curricula in several areas and two or three years of pre-professional training in a number of fields.

In addition to its formal academic program, the College is interested in participating actively in worthwhile community projects. To that end, it is the policy of the college administration to share with the community the cultural program and physical facilities of the College.

By providing a suitable environment, good equipment, and a well-trained staff Fairmont State College aims to offer for its students training that should equip them with vocational and personal fitness for life, and to provide the community with a source of information and culture.

HISTORY

Founded as a private teacher training school in 1865, Fairmont became a state supported normal school in 1867. Housed originally in space provided by a local church, Fairmont State College has since occupied sites at the heads of Adams Street and at Second Street and Fairmont Avenue in the block now containing the United States Post Office. In 1917 the College was moved to its present location on Locust Avenue. In 1924 Fairmont granted its first bachelor's degree in education on the basis of the completion of a four year college course. In 1931 the Legislature changed the name of Fairmont State Normal School to Fairmont State Teachers College. The title was again changed by the Legislature in 1943 to FAIRMONT STATE COLLEGE, and authorization was given to offer Bachelor of Arts and Bachelor of Science degrees. As a result of these developments, Fairmont is now authorized and equipped to offer a wider educational service to the people of West Virginia than ever before in its long history.

CAMPUS AND BUILDINGS

The Campus consists of about eighty acres with its principal frontage on Locust Avenue. Fairmont State College possesses a modern and well-equipped physical plant.

Administration Building—the oldest and largest building on the campus, it has been completely renovated and modernized. In addition to the administrative offices, it houses numerous classrooms and other facilities. Centered by its famous columns, the Administration Building presents an impressive frontage to Locust Avenue.

Library—is a three-story, air-conditioned, brick and glass structure of functional design. The Learning Resources Center, which is responsible for the college-wide audiovisual program, occupies the first floor. It contains a television classroom-studio, multi-media projection room, graphics production center, equipment maintenance and repair facility, preview room, demonstration classroom and offices. The various media located in the LRC include motion picture films, transparencies, film loops, slides, filmstrips, recordings, audio and video tapes.

The second and third floors house a library collection of 100,000 volumes including government documents and bound periodicals. The current periodicals and newspapers number over 500. The second floor includes a microfilm room with three readers and over 3000 reels of microfilm.

Science Hall—is a large, light-brick building housing the departments of Mathematics, Natural and Biological Science, Home Economics, and Business Administration.

Colebank Gymnasium—contains two gymnasiums, one for men and one for women. It also contains a swimming pool, classrooms, equipment and office rooms.

Morrow Hall—is a three-story building which has been enlarged by the addition of new wings on each floor. This modernized structure will accommodate 122 women.

North Hall—is a new, three-story building with accommodations for 150 women and an apartment for the head resident.

Morgan Hall—is a three-story building located near the main entrance to the campus. This residence will accommodate 84 women.

Garden Lane Apartments—house 410 students in four apartment buildings adjacent to the west side of the campus. The floor plan is laid out in suites for four students. Each suite has a furnished living-dining room, kitchen, bathroom, and two twin-bed rooms.

Pence Hall—is a three-story building located on a commanding site above the main campus. The building has accommodations for 132 men, and a resident manager. A handsome and commodious lounge area is included.

College Dining Hall—A modern college dining hall with two serving areas was opened to the students in 1967. The dining hall is located conveniently to the campus dormitories.

Arts Building—This modern functional building houses the Fine Arts (Art and Music), Speech and Dramatics, and Industrial Technology Departments. This classroom and laboratory facility is completely air-conditioned.

Field House—situated on Rosier Field, is equipped with dressing rooms, lockers, and showers for visiting and local football and baseball teams.

Rosier Field—situated at the upper end of the campus, is one of the beauty spots of Fairmont. Space is provided for a large football field, practice fields, baseball diamond and parking space. A concrete stadium capable of seating 5,500 spectators is provided. Nearby are tennis courts. A second athletic field has just been completed above the stadium field for physical education, soccer, and practice. Also completed is a field house wing with public toilet facilities, a press box and a concession stand.

President's Home—is a ranch-type structure of brick, situated on a knoll overlooking the main campus.

Student Union Building—A light-brick building, situated centrally on the campus, contains the snack bar, the College Bookstore, a large ballroom and other social and operating facilities. This building is the center for all student activities on the campus.

One-Room School Museum—was brought to the campus and reassembled as a Centennial project. Open as a tourist attraction, it contains artifacts of yesteryear such as books, stove, recitation bench, school bell, etc.

ACADEMIC INFORMATION

ACCREDITING

Fairmont State College is fully accredited by the North Central Association of Colleges and Secondary Schools and the National Council for Accreditation of Teacher Education. The College also holds membership in the American Association of Colleges for Teacher Education, the Association of American Colleges, the American Council on Education, the National Commission on Accrediting, and the American Association of University Women. These affiliations guarantee to Fairmont State College graduates and students full recognition of their earned credits in other colleges and universities.

DEGREES

The degrees granted by Fairmont State College are Bachelor of Science, Bachelor of Arts, and Bachelor of Arts in Education. For each degree 128 semester hours of credit are required. No student shall be awarded more than one baccalaureate degree.

ADMISSION

General Admission Procedure—All students desiring admission to Fairmont State College, whether directly from high school or as a transfer student from another college or university, must file an application for admission and health record on forms provided by the Registrar and Director of Admissions. All correspondence relative to admission and all credentials in support of an application must be on file at least two weeks prior to the opening of a semester or term.

Admission of West Virginia High School Graduates—Graduates of approved West Virginia High Schools are eligible if they rank in the upper three-fourths of the graduating class, have completed at least 17 units of work (including the prescribed units cited below), and have no severe health or character defect. The following high school units are required for admission:

English—4 units
    Must be basic English with no substitutes such as speech, journalism, or drama.

Science—2 units
    One of which must be biology. The second unit must be a basic science such as general science, chemistry, physical science, physics, etc.

Mathematics—2 units
    One of which must be algebra.

Social Studies—3 units
    One of which must be American history.

Health and Physical Education—1 unit
    Unless waived by the high school principal upon written recommendation of a physician.

Foreign Language—2 units recommended
    Two units should be in the same language.

Students who fail to complete the required pattern of high school units cited above may have certain deficiencies waived as follows: Students who have graduated from accredited high schools may be granted admission if they rank in the upper one-half of their graduating classes and achieve a composite standard score of 17 or more on the American College Test (ACT) and have no more than a single unit of violation in any one subject area or two violations on all areas.

Graduates of approved secondary schools who rank in the lower quarter of the graduating classes may be admitted provided they have attained a composite standard score of 14 or above on the American College Test administered during the senior year or summer prior to admission to college.

Admission of Out-of-State Students—To be considered for admission, applicants whose legal residence is in a state other than West Virginia must rank in the upper one-half of their graduating classes, meet the subject matter pattern required from resident students, complete the ACT test and have the recommendation of their high school principal or counselor. The final decision as to eligibility is based on a combination of the above factors.

Provisional Admission of High School Juniors—Provisional admission will be granted high school juniors who have attained a 3.0 (B) average or better on at least 12 units of the college preparatory curriculum at the end of six semesters of high school work. Final admission may not be granted until graduation from high school.

Foreign Students—To be admitted, the foreign students must demonstrate proficiency in written and spoken English. Such proficiency can be established by the successful completion of the Test of English as a Foreign Language, administrated by the Education Testing Service of Princeton, New Jersey, 08540. Information concerning this test can be secured through U. S. Embassies and Consulates throughout the world or by writing to TOEFL, 1755 Massachusetts Avenue, N.W., Washington, D. C., 20036.

The applicant must also file an application for admission, a health form, and an official transcript of all academic credits and grades. The transcript must be sent by the institution last attended. The application for admission may be secured by writing to the Director of Admissions, Fairmont State College, Fairmont, West Virginia, 26554.

Admission of Superior and Talented High School Students—The West Virginia Board of Regents has authorized the admission of a limited number of outstanding high school students, either in the summer following completion of their junior year in high school or on a part-time basis during their senior year in high school on the following basis:

1. Have completed the junior year of the college-bound curriculum of his high school.
2. Have a B-plus, or better, average on high school subjects in the college-bound curriculum.
3. Have the recommendation of his high school principal.
4. File an application for admission and submit transcripts of high school credits and grades.
5. Be approved by the Director of Admissions.
6. Pay regular college fees.

The credit earned under this arrangement is college credit and will be "stored" here and granted to the student when he enrolls in college, Should he enroll in another college, a transcript of the work will be forwarded to that institution. The decision as to whether advance standing credit is granted is, of course, left to the discretion of the receiving institution.

This program is not designed to interfere with the regular high school program. Rather, it affords an opportunity for superior students to accelerate their training if they so desire.

Admission by G. E. D. Test—Non-high school graduates may be admitted by passing the General Education Development Test. They must be veterans, persons over 19 years of age, or persons past the age they would have been had they remained in high school until they graduated. Such persons must have been out of school more than one year preceding application for examination. They will be admitted if they attain a standard score of 40 on each of the five parts of the General Education Development Test or an average standard score of 50 or above on the entire Test. Such students must have no severe character or health defect. G. E. D. scores must be sent directly to the Registrar and Director of Admissions from USAFI or from the testing center.

Admission of Transfer Students—Any applicant for admission to Fairmont State College who has attended another institution of collegiate rank will be classified as a transfer student, whether he has earned credit or not. The college does not under any condition disregard college level credit earned elsewhere. Advance standing credit will not be granted for credit designated as occupational or non-transferrable by the institution attended. Credit earned at other accredited colleges and universities will be allowed toward a degree if applicable.

To be admitted as a transfer student, one must meet the entrance requirements of Fairmont State College, must present evidence that he is in good standing in every respect at the institution last attended, and must have maintained a "C" (2.0) or better average on all college work previously attempted. Students who have been dismissed for academic or social reasons will not be eligible for admission.

Transfer credits are posted on the permanent record as received. All grades received by a transfer student in the college or colleges which he has previously attended must be included in the calculation of his quality point average even though some of the grades do not represent courses for which credit can be granted. Grades earned in other institutions shall not be used to make up a deficit of quality points in this institution.

To be official, a transcript must come direct from the institution issuing it and must bear the official seal of the institution, and the manual signature of the proper authority. The transcript should show the descriptive title of the courses, the year in which the work was done, the number of credits, and the grades. Transcripts, when accepted, become the permanent property of the college and will not be returned to the student. Such transcripts should be sent at least thirty days prior to the opening of the semester or term.

No credit of collegiate grade will be allowed for work done in the former normal training schools, except as authorized by the West Virginia State Board of Education. By the action of the board five-eighths college credit may be allowed for such work up to a maximum of 20 hours, provided credit was earned after graduation from high school.

General Requirements for All Applicants for Admission—All credentials submitted in support of an application for admission become the property of the College and will not be returned to the student. Such credentials include an official transcript of high school or college grades, an application for admission and a health record. The prospective student is responsible for the submission of all necessary forms and records in support of an application for admission.

Admission is for one semester or term and may be used only for that time. If the student fails to register during the semester or term for which he has been admitted, he must file another application if he desires admission at a later date.

Admission does not guarantee housing. Separate applications for dormitory space must be submitted to the Dean of Men or Dean of Women.

Any student admitted upon the basis of false and/or incomplete credentials will be subject to immediate dismissal from the college.

The American College Test—Fairmont State College requires the American College Test (ACT) of all applicants for admission. Scores on this test are used in placing students in English and Mathematics, for applicants for scholarships and loans, and in the academic counseling program. High school students are urged to take the test during their senior year. Financial aid applicants should take the test either in August prior to the beginning of the senior year, or on the October or December dates.

Advanced Placement—Advanced placement and/or credit will be granted to entering freshman students who have qualified on the basis of the tests of the Advanced Placement Program of the College Entrance Examination Board. Scores of three, four, or five are required.

PRE-REGISTRATION

All freshmen and transfer students are urged to pre-register during the summer preceding enrollment. No student will be pre-enrolled unless or until he completes the ACT Test. All new students are expected to pre-register unless they live at such a distance from Fairmont as to make a special trip an undue hardship. It is understood, however, that students who participate in the pre-registration program will be given priority in making schedules.

Transfer students who have been fully admitted may be pre-registered by coming to the campus at a time arranged with the Registrar. All transfer students should avail themselves of this opportunity since it simplifies the transfer process.

A pre-registration period for regularly enrolled students is scheduled each semester. The purpose of pre-registration is to insure students adequate schedules. All students must pre-register if they plan to re-enroll for the following semester or term.

REGISTRATION

At least two weeks prior to registration day an official transcript of credit must be filed in the Office of the Registrar and Director of Admissions for each incoming freshman and each transfer student.

All students are expected to complete registration on the days designated for this purpose at the beginning of each semester or term. Registration by proxy is prohibited. While all students are expected to register on time, late registration periods are permitted within prescribed limits as set forth in the schedule. Late registration fees are assessed in accordance with the fee schedule cited under Special Fees.

SEMESTER HOURS—DEFINITION

The semester hour is the basis of college credit within the institution. A lecture-recitation course meeting one period a week for a semester carries one semester hour of credit; if meeting two periods, two semester hours of credit. Laboratory courses, however, require a minimum of two periods a week for each semester hour of credit.

GRADING SYSTEM

The following system of grading is used within the institution:

A—Superior, given only to students for exceptional performance.
B—Good, given for performance distinctly above the average in quality
C—Average, given for performance of average quality.
D—Lowest passing grade for performance of poor quality.
F—Failure. Course must be repeated if credit is to be received.
FIW—Failure because of irregular withdrawal.
I—Incomplete, given to a student who misses a part of the course for a reason the instructor recognizes as a valid excuse for delay in completing the assignments. Unless the work missed is completed within a year from the date the mark is recorded, the I automatically changes to an F.
WF—Withdrew Failing, from one class or from college.
WP—Withdrew Passing, from one class or from college.

QUALITY POINTS

The quality of a student's work is indicated by quality points.

Candidates for graduation must have at least twice as many quality points as semester hours attempted; that is, a point-average of 2.00 on all college work and on all work completed at Fairmont State College. Quality points for grades A, B, C, D, are computed as follows:

A—Four (4) quality points for each semester hour of credit.
B—Three (3) quality points for each semester hour of credit.
C—Two (2) quality points for each semester hour of credit.
D—One (1) quality point for each semester hour of credit.

A student's grade average is determined by dividing the number of his quality points by the number of credit hours he has scheduled. No quality points are attached to grades F, FIW, and WF, but the credit hours for the courses in which these grades are received will be used in computing his grade average.

In order to be graduated, a candidate for a degree must have maintained a quality point average of 2.00 or better in all college courses and in all credit earned at FSC. An average of 2.00 must also be maintained in the major and minor fields of study and for the remaining semester hours taken collectively if the student is a candidate for the A.B. or B.S. degree. **If the student is in teacher education, he must attain an average of 2.20 in each teaching field and/or minor assignment.**

Grades earned in other institutions shall not be used to make up a deficiency of quality points in this institution.

It is the student's responsibility to keep informed of his quality point standing. This information can be obtained at any time from the Registrar.

CLASSIFICATION OF STUDENTS

Students who have completed not less than 90 hours of college work are classified as seniors.

Students who have completed not less than 58 hours and not more than 90 hours of college work are classified as juniors.

Students who have completed not less than 26 hours and not more than 58 hours of college work are classified as sophomores.

Students who have completed the high school or secondary course and not more than 25 hours of work are classified as freshmen.

NUMBERING OF COURSES

Courses for freshmen (100 series) and sophomores (the 200 series) constitute the lower level of curriculum. Courses numbered 300-499 are primarily for juniors and seniors. Almost all general education requirements consist of lower level courses which should be completed as far as possible by the end of the sophomore year.

CREDIT FROM A JUNIOR COLLEGE

The maximum credit accepted from a Junior College accredited by the North Central Association of College and Secondary Schools or other regional accrediting association will not exceed 72 semester hours. No more than 64 semester hours may be accepted from junior colleges which are not regionally accredited. No credit will be allowed for courses completed in a junior college subsequent to attainment of junior or higher rank by the student.

NON-RESIDENT OR OFF-CAMPUS CREDIT

One hundred (100) semester hours of the 128 required for graduation shall be completed in regularly scheduled campus courses. The 28 hours of permissible non-residence courses may be earned by extension, home study (correspondence), radio, television, special examination and/or military service. Credit earned in home study will be accepted only when earned in a regionally approved college.

ASSIGNMENTS AND CREDITS

1. Semester Load: Students must petition the Registrar for permission to carry more than 18 semester hours. To be eligible for permission, a student must have an overall B average or a B average for the preceding semester. Exceptions may be made if the student is in the last semester before graduation or before the Block.

2. Late Registration Fees. See schedule of fees for late registration. Late registrants often fail to obtain satisfactory schedules, for the policy of the College is to give priority to students who register on the dates for regular registration.

3. Schedule Changes: Students may not add new classes to their schedule after the period of registration has ended.

4. Withdrawal from College: A student desiring to withdraw from the College will apply at the Registrar's Office. Here forms will be obtained, which when completed with the proper signatures and returned to the Registrar's

Office, will constitute an official withdrawal. The instructor records on the Final Grade Report to the Registrar, a W for students withdrawing during the first six weeks of a semester or two weeks of a summer term. In case the official drop notice is issued after one-third of the semester or term, the instructor will record either WP or WF at the end of the period of enrollment.

5. Withdrawal from Classes: During the first six weeks, upperclassmen (26 or more hours of earned credit) may drop classes with grades of W being recorded. From the end of the sixth week to the end of the ninth week, upperclassmen may drop one or more classes with grades of WP or WF (depending upon grade being earned at the time) being recorded. After the end of the ninth week, upperclassmen may not withdraw from individual classes. During the first six weeks, freshmen (1 to 25 hours of earned credit) may drop classes with the grade of W being recorded. From the end of the sixth week to the end of the twelfth week, freshmen students may drop one class only. If approved, a grade of W will be recorded for the dropped class. If additional classes are dropped during this period, grades of WF will be recorded. After the end of the twelfth week, no withdrawals from individual classes may be made. Such grades will be used as a part of the student's record for the semester in determining his eligibility for enrollment later.

A student who withdraws from the college without formal notice to the Registrar will receive at the end of the semester a grade of "FIW" in each subject for which he is registered.

6. Repeating a course: With the approval of his adviser, a student may repeat a course in which he has received an F or a D. When this is done, both grades will be recorded and used in computing the student's point average. A student may not repeat a course in which he has earned a C or better.

If a student earns a grade of D or F on any course taken no later than the semester or summer term when he has attempted a total of 60 semester hours, and if he repeats this course one time only, the first grade shall be disregarded for the purpose of determining the student's quality point average and the grade earned the second time this course is taken shall be used in determining his grade point average. This regulation shall be effective only for students entering upon college study for the first time in the fall term of 1968 and thereafter.

7. Minimum Residence Requirements for Graduation: For a degree, at least one year's work in residence is required, one semester of which must be in the senior year. A "year of residence" must represent not less than 32 week's work in residence and 32 hours credit. A semester is defined as a minimum of 16 weeks and 16 hours credit.

Exception is made in the case of any student who has completed three years of required work in Fairmont State College and who wishes to complete the senior year by substituting approved credit earned subsequently in a college of medicine or dentistry.

8. Application for Graduation: Candidates for graduation must make official application for a degree at least 45 days before Commencement Day. Applications will be filed with the Registrar.

9. Assignment and Credits: Regularly enrolled students who desire to complete work at another accredited institution on a transient basis must secure written permission of the Registrar and Director of Admissions to do so. Transient credit completed without permission will not be accepted.

If the final grade of a student in any course is F the student must take the course again in residence at Fairmont State College if he desires to receive credit for it, unless the Academic Dean authorizes the exception.

DEAN'S LIST

Students who are registered for fifteen or more hours and receive a grade point average of 3.2 are considered honor students and named to the Dean's List.

GRADUATION WITH HONORS

Candidates for graduation who have achieved special distinction in academic work are graduated with honors. Honors are determined by the cumulative quality point average of student's work at graduation. Three grades of honors are recognized: **cum laude** for a point average of 3.0 to 3.49; **magna cum laude** for a point average of 3.50 to 3.74; and **summa cum laude** for a point average of 3.75 or better. Averages are based upon the entire academic record of the student, excluding grades earned during the last semester or term.

TRANSCRIPTS

Every student at Fairmont State College is entitled to one official transcript of his record free; for each additional copy a fee of one dollar ($1.00) will be charged. **No student who fails to meet his financial obligations to the College, or any department of the college, will be given a transcript.**

An application for a transcript of credit should furnish the date of last attendance at Fairmont State College, and a married woman should give both her maiden and married names. All requests for transcripts should be sent directly to the Registrar.

AUDITORS

Students who are registered in Fairmont State College may be permitted to attend classes as auditors provided they shall have obtained the written permission of their advisers and of the instructors in the classes they desire to visit. No person who enrolls in any class as an auditor may in the same semester be considered as enrolled in this class for the purpose of obtaining credit. In no case whatsoever will auditing be regarded as a factor in obtaining credit.

Students eligible to attend classes as auditors may obtain proper permission blanks from the Registrar. Other persons, even if not registered students, may attend classes as auditors upon securing permission from the Registrar and from the instructors involved, upon payment of the regular fee. Auditors are required to complete the regular registration forms.

REPORTS TO STUDENTS

The grades of all students are reported by each faculty member to the Registrar at the middle and end of the semester. Faculty advisors are provided complete grade reports at each reporting period. Students receive grade reports at mid-semester and again at the end of the semester. The grade reports of freshmen earning one or more grades of "D" or lower are forwarded to the parents at mid-semester by the Director of Student Personnel.

SPECIAL EXAMINATIONS FOR COURSE CREDIT

Students may take special examinations to qualify for credit in certain courses. For further information as to the courses covered in this manner, students should contact the Student Personnel Office. All tests are administered by the College Testing Service.

Applications must be made to the Registrar for permission to take a special examination. To qualify for permission to take such an examination, an applicant must be enrolled or must have completed successfully one semester or summer session in Fairmont State College. The applicant must, in addition, establish eligibility in regard to his background in the area concerned. In order to gain college credit by special examination, the student must demonstrate better than average proficiency in the course. Examinations will not be given for courses in which the student has obtained a low grade previously.

Applicants must pay a fee of $3.00 for each special examination, if regularly enrolled at the time of taking the examination; otherwise the fee is $2.50 per semester hour of credit to be received. A receipt for the payment of the fee must be obtained from the cashier's office. No money will be refunded if any examination is failed. No examination may be repeated.

First semester freshmen may establish course credit by examination in the following courses without the payment of special examination fees: English 104—Written English—3 hours; French 101 and 102—Elementary French—6 hours; Home Economics 101—Principles of Clothing Construction—2 hours; Home Economics 201—Principles of Food Selection and Preparation—3 hours. An additional condition precedent to the granting of credit is enrollment by the student in the next higher course.

Advance Standing—Based on high school record and performance on the ACT, the Registrar will determine eligibility for advanced standing and credit in English and French as follows:

> **English**—No semester grade of less than B in each of four units of high school English and a standard score of 25 or higher on the English part of the ACT.
>
> **French**—No semester grade of less than B in each of two or more units of high school French and a standard score of 25 or higher on the English part of the ACT. The student must also complete French 201 with a minimum grade of C.

Students may be granted advanced standing credit for any number of the mathematic courses numbered 115, 116, or 215 by earning at Fairmont State College a grade of C or better in a higher numbered course from the sequence 116, 215, 216.

Students who are majoring in industrial arts or technology will be granted advanced standing credit for I.E. 120 provided they have completed two units of high school credit in drafting with a grade of B or better, and complete I.E. 220 with a grade of C or better. A student receiving D in 220, must repeat 220 and make C or better to get credit for 120.

Students who complete a major or teaching field in French may establish credit for French 101 and 102 if they complete French 201 with a grade of C or better.

ENGLISH PERFORMANCE EVALUATION

All students who are candidates for baccalaureate degrees must attain a grade of C or above in English 108 in order to prove their competence in the use of the English language. This is a requirement for graduation.

PROBATION AND SUSPENSION

1. A student whose cumulative academic record shows a deficit of 10 or more quality points automatically is placed on probation.

2. A student is removed from probation when he completely removes his grade point deficiency and achieves an average of 2.00 or better.

3. Students who have been on academic probation for one semester or longer and who are 20 or more points deficient will be suspended. The suspension list is compiled each summer on the basis of student records at the conclusion of the spring semester.

4. A student who has been suspended may petition to be readmitted 12 or more calendar months after his suspension. If readmitted, he is automatically on probation and must reduce the quality point deficiency by at least 6 points each semester, or be suspended.

5. Two suspensions from any institution(s) of higher education are final.

CATALOG POLICY

A student who enrolls at Fairmont State College shall follow the provisions of the catalog in use at the time of his admission. Transfer students will use the catalog current at the time of their admission to the other institution, provided that the graduation date would be not more than five years from date of first enrollment in college.

Any student who has interrupted his schooling for more than one year will become subject to the provisions of the current catalog. An exception will be made if the interruption is caused by service in the armed forces.

All students seeking readmission as a result of academic suspension will be enrolled under the current catalog.

INSTITUTIONAL TESTING PROGRAM

Standardized comprehensive tests must be taken by every student. The tests are required for graduation. All candidates for a baccalaureate degree must take the College Comprehensive Test near the end of their sophomore year. Students graduating with the Bachelor of Arts in Education must take the National Teachers Examination near the end of their senior year. Students graduating with the Bachelor of Arts (non-teaching) or Bachelor of Science degrees must take the Graduate Record Examination near the end of their senior year.

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COLLEGE FEES

ENROLLMENT FEES:

West Virginia Students:

Tuition (8 hours and above)	$ 25.00
Special Registration Fee (12 hours and above)	50.00
Student Activity Fee	16.00
Course Fee	5.00
Student Union Fee	15.00
Testing Fee	1.00

***Non-Resident Students:**

Tuition (8 hours and above)	$175.00
Special Registration Fee (12 hours and above)	200.00
Student Activity Fee	16.00
Course Fee	5.00
Student Union Fee	15.00
Testing Fee	1.00

Part-Time Fees, West Virginia Students:
Regular Semester (Less than 8 hours):

1 Semester Hour	$ 5.00	plus $2.00 Course Fee
2 Semester Hours	8.00	plus 2.00 Course Fee
3 Semester Hours	10.00	plus 2.00 Course Fee
4 Semester Hours	13.00	plus 2.00 Course Fee
5 Semester Hours	16.00	plus 2.50 Course Fee
6 Semester Hours	19.00	plus 3.00 Course Fee
7 Semester Hours	22.00	plus 3.50 Course Fee
Special Registration Fee		$4.00 per credit hour

All part-time students must pay a Student Union Fee.
1 to 4 hours inclusive $6.00. 5 to 7 hours inclusive $8.00.

Testing Fee	1.00

Part-Time Fees, Non Resident Students:
Regular Semester (Less than 8 hours):

1 Semester Hour	$ 15.00	plus $2.00 Course Fee
2 Semester Hours	30.00	plus 2.00 Course Fee
3 Semester Hours	45.00	plus 2.00 Course Fee
4 Semester Hours	60.00	plus 2.00 Course Fee
5 Semester Hours	75.00	plus 2.50 Course Fee
6 Semester Hours	90.00	plus 3.00 Course Fee
7 Semester Hours	105.00	plus 3.50 Course Fee

Special Registration Fee (1 to 11 hours inclusive), $17.00 per credit hour to a maximum of $200.00

All part-time students must pay a Student Union Fee.
1 to 4 hours inclusive $6.00, 5 to 7 hours inclusive $8.00.

STUDENTS CARRYING 8 HOURS AND ABOVE ARE REQUIRED TO PAY THE STUDENT ACTIVITY FEE OF $16.00.

Testing Fee	1.00

All Day Students ID card fee $1.00.

Pre-registration fee of $15.00 must be paid by all in-coming Freshmen, transfer students, and students returning after an absence of one semester or term. This fee is non-refundable.

SUMMER SCHOOL FEES:

West Virginia Students:

Tuition (4 hours and above) one term	$ 15.00
Tuition (4 hours and above) two terms	30.00
Special Registration Fee	$4.00 per credit hour
Student Activity Fee (Payable one term only)	2.00
Course Fee $3.00 (one term) Maximum (two terms)	5.00
Student Union Fee (payable one term only)	15.00
Testing Fee (payable one term)	1.00

Non-Resident Students:

Tuition (4 hours and above) one term	$ 58.00
Tuition (4 hours and above) two terms	116.00
Special Registration Fee	$17.00 per credit hour
Student Activity Fee (payable one term only)	2.00
Course Fee $3.00 (one term) Maximum (two terms)	5.00
Student Union Fee (payable one term only)	15.00
Testing Fee (payable one term)	1.00

Part-Time Student Fees, West Virginia Students:

1 Semester Hour	$ 5.00 plus $2.00 Course Fee
2 Semester Hours	10.00 plus 2.00 Course Fee
3 Semester Hours	15.00 plus 2.00 Course Fee
Special Registration Fee	$4.00 per credit hour
Student Union Fee (1 to 3 hours inclusive)	8.00
Testing Fee (payable one term)	1.00

Part-Time Student Fees, Non-Resident Students:

1 Semester Hour	$ 15.00 plus $2.00 Course Fee
2 Semester Hours	30.00 plus 2.00 Course Fee
3 Semester Hours	45.00 plus 2.00 Course Fee
Special Registration Fee	$17.00 per credit hour
Student Union Fee (1 to 3 hours inclusive)	8.00
Testing Fee (payable one term)	1.00

AUDITING FEE:

Auditing Fee is the same rate as the Semester Hour Fee.

NON-CREDIT COURSES:

The fee for non-credit courses, institutes, conferences, etc., is equivalent to the auditing fee:

a. Minimum enrollment of fifteen:
   1. Equivalent of one semester hour credit, $20.
   2. Equivalent of two semester hours credit, $40.
   3. Equivalent of three semester hours credit, $60.

b. Enrollment of less than fifteen:
   1. Pro-rate increase in fee to equate minimum enrollment.

SPECIAL FEES:

**Chemistry Breakage Fee	5.00
Late Registration Fee:	
1st day	$ 10.00
2nd day	12.00
3rd day	13.00
4th day	14.00
5th day	15.00
Graduation Fee (Inc. cap and gown)	10.00
Freshman Orientation Fee	1.50
Transcript Fee (First Transcript is furnished free)	1.00
Special Examinations for course credit (Regularly enrolled students)	3.00
Special Examinations for course credit (Non-enrolled students) per semester hour	2.50

Fees for Industrial Education

All courses in Industrial Education in which laboratory and demonstration materials are included will require an additional fee of $2.00 per credit hour. Students will pay the actual cost of personal projects constructed in laboratory classes.

* The term "resident" as hereinafter used refers to classification for fees purposes only.

** Assessed each student enrolled for any chemistry, laboratory course. Unused portion, if any, will be refunded at end of school year. In event of unusual breakage, an amount to cover same may be assessed.

REGULATIONS GOVERNING CLASSIFICATION OF STUDENTS FOR ASSESSING TUITION FEES—REVISED July 25, 1966

The following definitions, general policies, and regulations will apply to non-resident students and are administered by the Registrar.

The term "residence" as used in these regulations refers to the actual physical location of a person and is to be used solely for the purpose of assessing tuition fees.

The residence status of a student is determined at the time of his first registration at a state college or university, and his residence is not changed by his attendance as a student at such college or university. This policy shall apply to both graduate and undergraduate students regardless of any scholarships, student assistantships, loans or graduate assistantships that may be granted to any student.

A non-resident student is hereby defined to be a student of less than twenty-one years of age, living away from his family and whose family resides in another state, or whose family has not resided in West Virginia for the twelve consecutive months immediately preceding the date of first registration; or a student of twenty-one years of age or over, who resides out of the state or who has not been a resident of the state twelve months subsequent to his twenty-first birthday or for the twelve months immediately preceding the date of first registration.

The residence of one who is under twenty-one years of age is that of the father. Upon death of the father, the residence of the minor is that of the mother. Upon divorce of the parents, the residence of the minor is determined by the residence of the person to whom custody is granted by the court. In the absence of any grant of custody, the residence of the father continues to control. Upon the death of both parents, the residence of the minor continues to be that of the last surviving parent until he becomes twenty-one.

Individuals who have come from without the State of West Virginia and who register in a state college prior to having resided in the state for a period of twelve months shall be classified as non-resident students; and such non-resident student classification shall be presumed to be correct as long as the residence of such individuals in the state is during their attendance at educational institutions, regardless of whether such individuals have become qualified voters, have registered motor vehicles and paid personal property taxes thereon, have obtained West Virginia drivers' licenses, or have otherwise attempted to establish residence within the state.

A student under twenty-one years of age shall not be classified as a resident student until his parents have resided in this state for at least twelve consecutive months immediately preceding the date of current registration. A West Virginia student whose parents or guardian move out of the state of West Virginia after his original enrollment, will automatically become liable for the non-resident fee at the next registration period after twelve months following removal of parents or guardian.

Individuals of twenty-one years of age or less whose families have not resided in West Virginia for the twelve months immediately preceding the date of first registration shall be classified as non-resident students regardless of whether such individuals have become the legal wards of residents of West Virginia or have been adopted by residents of West Virginia while such individuals are attending educational institutions in West Virginia or within a year prior to such an attendance or under circumstances indicating that such guardianship or adoption was for the purpose of obtaining status as a resident student.

The residence of a minor student assigned to a guardian shall be considered affected by such assignment, beginning twelve months after the appointment of the guardian; the provisions stated above with respect to parents' residence shall then apply to the guardian's residence.

An alien who has taken out his citizenship papers and has resided in West Virginia for twelve months immediately preceding the date of his enrollment in a state college shall be regarded as eligible for registration as a West Virginia student.

Persons who are moved into the state as the result of military orders from the government, or the minor children of such persons, are entitled to admission as in-state students beginning twelve months after establishing residence in the state.

Marriage, alone, to a West Virginia resident will not change the status of a non-resident student in a West Virginia State College. Employment of his spouse does not change his status.

An individual on active Federal military service may be classified as a resident for the purpose of payment of fees providing that he resided in West Virginia for a period of twelve months continuously prior to entrance into military service, that he entered the military service from West Virginia, and that he has at no time while in military service claimed, or established, residence in any other State of the United States or its possessions. Sworn statements attesting to these conditions may be required. The wife of such individual as described above, and children under the age of twenty-one shall also be classified as residents of the State of West Virginia for fee purposes.

The student must have the question of his residence passed upon prior to registration and payment of fees. The responsibility of registration under proper residence is placed upon the student. If there is a possible question as to residence, the matter should be brought to the attention of the Admissions Officer and passed upon at least two weeks prior to registration and payment of fees. Any student found to have made a false or misleading statement concerning his residence shall be subject to dismissal from the college.

PAYMENT OF TUITION AND FEES:

The regulations of the West Virginia Board of Regents provide that "No financial credit of any type shall be extended to any individual either student or other, at any state college or institution. All colleges and institutions shall operate strictly on a cash basis with all payments and obligations being collected in advance. All tuition and fees must be collected in full for each semester on enrollment day for each semester."

REFUND POLICY FOR TUITION AND FEES:

A student who withdraws regularly from the college may arrange for a refund of his fees in accordance with the following schedule. Refunds are determined from the first day of the school term which begins officially with Freshman Orientation Week. The official withdrawal date is certified by the Registrar.

16 Weeks (Semester)

During first and second weeks	90%
During third and fourth weeks	70%
During fifth and sixth weeks	50%
Beginning with seventh week	No Refund

5 Weeks (Summer Term)

During first day	90%
During second day	70%
During third day	70%
During fourth day	50%
During fifth day	50%
Beginning with second week	No Refund

RESIDENCE HALL EXPENSES—MEN AND WOMEN

Room Rent $144 per semester per person.
Room Rent (Five Week Term) $40.00 per student—occupancy two students per room.
Room Rent (Five Week Term) $45.00 per student—occupancy one student per room.
Board $270.00 per semester.
Board (Five Weeks Term) $75.00.
A three percent Consumers Sales Tax is payable on all Room and Board charges.
All rates are subject to change due to rising costs.

PAYMENT ON ROOM AND BOARD:

Room Rent must be paid in full on Registration Day.
Board must be paid in advance either on a semester or a quarterly basis.
Room Rent (5 week term) must be paid in full on Registration Day.

Board (5 week term) must be paid in full on Registration Day.

Board and Room Rates are subject to change.

(All fees are subject to change by action of the West Virginia Board of Regents.)

ROOM RESERVATIONS:

Applicants for room reservations in College residence halls must pay a $80.00 deposit at the time the room application is filed with the College. (**This amount is subject to change at any time.**) The deposit will be credited to the applicant's room rent account.

Notice of cancellation of room reservations must be received by the College by May 1. Otherwise the total amount of $80.00 will be forfeited. (Exception: Should the application be denied by the Director of Admissions, a full refund will be made without regard to dates.)

Not more than ten per cent of available living space in any campus dormitory may be assigned to out-of-state students.

STANDARDS FOR DORMITORY LIFE:

1. All students not living at home are required to live in residence halls, unless other arrangements are made with the Dean of Men or the Dean of Women.

2. Students already living in dormitories are required to make an advance deposit of $80.00 to be applied on room rent at the time the application for a reservation is made for the following year. This deposit shall be forfeited if the applicant does not remain in college and the college notified of a cancellation by June 1. (An exception will be made in cases of academic suspension.)

3. A $20.00 breakage fee shall be deposited at time of registration.

4. All students living in campus residence halls must take their meals in the college dining hall.

5. No evening meal will be served in the college dining hall on Sunday.

6. Residence halls will be closed during the Thanksgiving, Christmas and Spring recesses.

7. Room rental for a semester must be paid in full on Registration Day.

8. Board must be paid in advance either by the quarter or by the semester.

9. Dormitory residents must furnish curtains, bedspreads, blankets, pillow, wastebasket, and study lamp.

10. All dormitory students except residents of Garden Lane apartments must subscribe to a linen service that supplies fresh bed linens and towels weekly.

11. A student who is absent from a residence hall for seven or more consecutive days will not be charged for meals, provided that the Food Director is notified in advance. No deduction in room rent, however, will be allowed regardless of the cause of absence. There is no refund of room rent to students changing residence during a term or semester, or to students withdrawing during a term or semester.

12. Students are not permitted to move from the dormitories during the school year except to withdraw from school.

13. In cases where a preponderance of circumstantial evidence of stealing exists the student's room will be searched in his presence by the Social Dean.

14. If there are no vacancies in the dormitories and a student must live off-campus, such living quarters must be approved by the Dean of Men or the Dean of Women before they may be occupied. Information about approved rooms for rent is maintained in the offices of the Social Deans.

A student living off-campus must show his correct, complete local address, as well as the name of his landlord, on his schedule cards. This registration of local address must be completed within 24 hours after the student establishes living quarters in the Fairmont area.

Any changes in local addresses made during the school year must be reported to the office of the Dean of Men or Dean of Women immediately.

NOTE: Registration is not completed until check covering payment of tuition and fees has cleared the bank upon which it is drawn. A late payment fee of $15.00 will be charged on each check returned for "insufficient funds" unless the student can obtain an admission of error on the part of the bank.

The Business Office shall declare the fees unpaid and registration cancelled until such time the check has been redeemed and the additional charge paid.

STUDENT WELFARE

STUDENT PERSONNEL SERVICES

Fairmont State College maintains many services of great value to all students with the aim of assisting each student to adjust to his school environment and get the most from his college experience. A centrally organized student personnel program is provided through the Office of the Director of Student Personnel. The services include freshman orientation; testing, educational, vocational and personal counseling; placement service after graduation; student employment on and off campus; financial aid information; student insurance; and other services pertinent to student welfare in general.

All students enrolled for eight or more hours of credit must have an identification (I.D.) card. This card is used as identification for and admission to school activities. The picture for the card will be taken at the time of pre-registration in the summer or in the fall for students who do not pre-register. The student pays $1 for the card, which is good for the entire period of attendance. It must be validated in the Office of Student Personnel each semester.

HOUSING

Pence Hall is a modern dormitory providing living quarters for 132 men. It is located on the hill above the main portion of the campus and commands a splendid view of much of the campus and surrounding area.

Six modern conveniently located dormitories are available for women. On campus is Morrow Hall built in 1922, renovated and refurnished in 1959, and North Hall completed in September, 1964. Privately owned dormitories adjacent to the campus are Morgan Hall built in 1965, and Garden Lane Apartments built since 1966.

All dormitories feature built-in wardrobes, study desks and book shelves. Within each resident hall there are facilities which will create a homelike atmosphere. Included are lobbies, lounging and recreational areas, vending machines and coin-operated laundry equipment.

Fees charged for residence in campus dormitories are listed under Residence Hall Expenses.

TESTING AND COUNSELING

The Office of Student Personnel provides a testing and counseling service designated to assist students in making more intelligent personal, academic, and vocational choices. Trained personnel are maintained to administer and interpret tests. For the most part students seek this service voluntarily. Special remedial assistance is available to students who are deficient in reading vocabulary and study habits.

PLACEMENT SERVICE

This service is available to all persons graduating from the college and to those who receive teaching certificates through its recommendation. All seniors are urged to register prior to graduation. Alumni who hold degrees or certificates are welcome to register. Assistance in placement in all fields of employment is offered.

FRESHMEN ORIENTATION

Freshmen students arrive on the campus in advance of the upperclass students. During this period they become acquainted with the campus, buildings, and equipment, and various student activities. After scheduling classes in consultation with faculty advisors, they become formally registered for their first year of college work. Throughout the orientation period freshmen are assisted and guided by trained student counselors who are sympathetic with their special problems.

ADVISOR SYSTEM

Each student is assigned an academic advisor at the time of his first enrollment in Fairmont State College. If the student desires to change his major field of study, he should contact the Academic Affairs Office for assignment to the appropriate advisor. Students who are not ready upon entrance to select a major will be assigned to special advisors.

It is to his academic advisor that a student will take all problems relating to course requirements, class schedules, pre-registration, and registration.

GENERAL REGULATIONS

Fairmont State College expects its students to observe the standards of good citizenship, both on and off the campus. Regulations of the State Board of Regents empower the president and faculty to take such steps as may be needed to enforce these standards.

Cheating

A student who is observed to be glancing at his neighbor's paper should be warned by the instructor that these actions are evidence of cheating. Should the student repeat the performance, the instructor should order him to turn in his paper and leave the room. An F may be recorded for the quiz or examination. Should the student repeat this performance at a later period, he may be dismissed from class and an F recorded for the semester.

When evidence is clear that a student has brought notes to class, has developed a system of signals, or has been in collusion with another in any way, he will be dismissed from class and a grade of F recorded.

When there is clear evidence of plagiarism in a paper submitted by a student, a grade of F may be assigned to the paper.

A student who enters the quarters of a faculty member and removes examination materials or in any way alters records may be expelled from the College.

Any case covered by the above regulations must be reported by the faculty member to the Dean of Academic Affairs before any penalty is imposed on the student. Faculty members are responsible for obtaining clear and convincing evidence to support their position.

LOAN FUNDS, SCHOLARSHIPS, AND OTHER STUDENT AID

The scholarship and loan funds of Fairmont State College are available to worthy undergraduates who need assistance in meeting their college expenses. All funds are administered by the Financial Aids Committee, unless otherwise indicated. Applications for scholarships and loans should be made to Chairman, Financial Aids Committee.

PHILOSOPHY OF FINANCIAL AID

1. All academically capable students should attend college.

2. Any student who needs financial assistance should be willing to work part-time after the first semester's attendance at Fairmont State College.

3. Financial assistance is not designed to support luxuries nor should a student expect assistance just because he wants to be married.

4. After one semester's attendance and an overall C average, no student need leave school for financial reasons.

5. Financial assistance is not intended to replace the responsibility of the parents. It is to supplement that which the home can and should provide.

LOANS

The loan program at Fairmont State College serves three functions.

1. Supplement the assistance needed by scholarship students.

2. Provide assistance to academically superior students who do not qualify for a scholarship

3. Provide emergency short-term loans (not to exceed 90 days) to students who have a minimum C average.

To qualify for a loan a beginning student must:

1. Meet all entrance requirements as prescribed by the West Virginia Board of Regents and by Fairmont State College.

2. Transfer students must have an overall C average on all previous work.

3. Provide evidence of financial need by completion of prescribed application.

LOANS AVAILABLE

The National Defense Student Loan Program

Any student interested in entering Fairmont State College and who can meet the above qualifications may apply.

Important facts pertaining to this loan are:

1. The loan funds are allocated by the Federal Government on a matching basis. The College must provide 10 percent of the total amount to be loaned each year. This amount is to be determined by the United States Office of Health, Education and Welfare.

2. The College is limited as to how much it can lend each year.

3. An individual loan will be based on the actual need for basic expenses; tuition, room and board, books, fees, etc. The maximum loan is $1000 for the academic year. A student having a loan will be expected to work, if needed, as a student employee on campus after one semester's attendance at Fairmont State College.

4. There is no interest on a loan until nine months after the applicant ceases to be at least a half-time student in this or some other institution of higher education. Simple interest of 3 percent per year begins on the unpaid balance at this time. A maximum of ten years is allowed to repay the amount borrowed, depending upon the amount owed.

5. The loan, and interest thereon, of any borrower who serves as a full-time teacher in an approved elementary school, secondary school, or college within the territorial limits of the United States shall be cancelled at the rate of 10 percent of the amount of the loan plus interest thereon for each year of teaching for the first five years of teaching service.

Additional teacher cancellation benefits are available for those who are willing to teach in an area designated by the Commissioner of Education to be an economically deprived area. This cancellation amounts to 15 percent per year plus interest, and the full amount of the loan may be cancelled. No more than 25 percent of the schools in a given school district can come under this special provision.

In effect, the provisions of this loan make the loan a scholarship, partial or complete, for teachers.

6. Students who serve in the military forces, Peace Corps, or VISTA, receive deferred repayment and no interest for a maximum of three years while serving in one or another of the above.

7. Any student receiving this loan must sign an "Oath of Affirmation," which states, "I do solemnly swear that I bear true faith and allegiance to the United States of America and will support and defend the Constitution and laws of the United States against all its enemies, foreign and domestic."

8. Notes must be co-signed by parent or guardian if the student is under 21 years of age.

For further information and application blanks write:

Chairman, Financial Aids Committee
Fairmont State College
Fairmont, West Virginia 26554

The Claude Worthington Benedum Loan Fund

This loan is available to West Virginia residents only. The maximum loan is $300 in a school year. There is no interest while a full-time student at Fairmont State College. Complete repayment must be made within three years after graduation or ceasing to be a full-time student with an interest rate of 4 percent the first year and 6 percent the second and third years. The note must be co-signed by a parent or guardian.

Federally Insured or Guaranteed Loans

These loans are made to students by banks. The College's responsibility is to certify enrollment and academic good standing. Request current financial aid brochure for details on these loans as regulations governing them change frequently and vary according to state programs.

Educational Oportunity Grant

The Higher Education Act of 1968 provides grants to students from low income families. The amount of the grant can range from $200 to $1000 depending upon need as evidenced by the family financial statement. These grants are made in the form of a package aid award which includes an Educational Opportunity Grant, a loan, and student employment. One hundred percent financial aid can be provided if the family is not capable of making any contribution. All financial aid applications are reviewed to determine whether or not each applicant might be eligible for this form of assistance.

While this program has been in operation for four years, the Act of 1968 placed greater restriction on the college in awarding these grants. The following is a summary of federal guidelines for selecting Educational Opportunity Grant Recipients beginning with the 1969-70 school year:

A. A gross family income of $6,000 or less per year, or
B. A gross family income of $7,500 or less per year in a family with two working parents, or
C. A family whose head is self-employed (typically a farmer or small businessman) and whose adjusted income is the equivalent of a salaried worker's gross income of $6,000 or less, or
D. A large family whose income-dependent correlation is in accord with the chart below:

If the gross family income is within the range:	The minimum number of dependent children necessary to qualify for an E.O.G. is:
$6001 - $6200	6
6201 - 6600	7
6601 - 6900	8
6901 - 7200	9
7201 - 7500	10
7501 - 7700	11
7701 - 7900	13

Crystal-Miller-Morris Short Term Loan

An emergency loan not to exceed $250 and must be repaid within 90 days. Interest is $.25 per month. The note must be co-signed by a parent or guardian. The applicant must have a C average or better and have attended Fairmont State College at least one semester.

SCHOLARSHIPS

Fairmont State College does not have sufficient scholarships to award to all academically deserving students who also have financial need. The Financial Aids Committee examines the applicant's academic background (high school transcript and ACT scores) first and then searches for evidence of financial need.

To be eligible for a scholarship, a student must:

1. Be a West Virginia resident and a graduate of a West Virginia high school.
2. Meet all entrance requirements as prescribed by the West Virginia Board of Regents and by Fairmont State College.
3. Must rank in the upper 10 percent of the high school graduating class.

Application should be made by April 1.

SCHOLARSHIPS AVAILABLE

West Virginia Board of Regents Teacher Scholarships

The scholarships are for entering Freshmen and they pay tuition and registration fees ($75 per semester) for four years so long as a satisfactory academic average is maintained. Five are awarded to prospective elementary teachers and five to prospective secondary teachers each year. The recipients are obligated to remain in West Virginia and teach for four years after graduation or repay the amount of money advanced.

West Virginia Board of Regents General Scholarships

These scholarships are for entering Freshmen and they pay tuition and registration fee ($75 per semester) for four years so long as a satisfactory average is maintained. The number to be awarded is determined by the school enrollment the previous year. No obligation is placed on the recipient of this scholarship.

Claude Worthington Benedum Freshman Scholarship

These scholarships are for the freshman year only. The amount is $100 each semester so long as a satisfactory average is maintained. The number to be awarded each year is determined by the amount of money received from the Benedum Foundation.

Circle W Club Scholarship

Awarded annually to the outstanding academic student whose parent or legal guardian is a member of the Circle W Club of Local IUE 627. The recipient is to attend Fairmont State College and will receive sufficient financial assistance to pay tuition, fees, and books for up to four years, so long as a satisfactory average is maintained.

Junior League of Fairmont, Incorporated—Memorial Scholarship-Loan Fund

Realizing the importance of education for the advancement of our community, state and nation, the Junior League of Fairmont established a Scholarship-Loan Fund to provide financial assistance to needy students. The Fund started in April, 1962, is to be a continuous project of the League. The money is to be used in the manner in which Fairmont State College feels it will best serve the needs of worthy students. The Financial Aids Committee will select the recipients.

Non-West Virginia Residents

Fairmont State College recommends that you explore the possibilities for assistance under the Higher Education Authority of your state before applying directly to the College. Most states have such programs and your guidance counselor or home town bank should have the necessary information.

WORKING SCHOLARSHIPS

Among the several work scholarships available are:

(1) Assistant to Director of Public Relations, cash value $100 per semester.

(2) Director of Sports Publicity (preparation of sports news), cash value $70 per semester. Those interested must apply in person to the Director of Public Relations.

(3) Editor of **The Columns** cash value $75 per year.

(4) Business Manager of **The Columns**, cash value $75 per year.

(5) Editor of **The Mound**, cash value $75 per year.

(6) Business Manager of **The Mound,** cash value $75 per year.

PART-TIME EMPLOYMENT

Opportunities are provided for many students who seek financial assistance through part-time employment. A registry of part-time jobs, available both on and off campus, is maintained in the Office of Student Personnel. On the college campus, students find employment in clerical work, library work, assisting instructors, kitchen and dining room work, maintenance, and other similar activities.

The Office of Student Personnel assists students in finding part-time employment off campus. Many students work in stores, factories, garages, filling stations, and private homes.

REGULATIONS FOR STUDENT AID AND OTHER EMPLOYMENT

1. Students employed on the student aid basis may not be employed ordinarily for more than sixty-five hours in any one month. In exceptional circumstances, and when approved by the Financial Aids Committee, students may be employed to a maximum of ninety hours per month.

2. Students enrolled for more than six semester hours may not be employed by the College except on a student-aid basis.

3. Full-time employees of the College may not enroll for any academic work other than that obtainable outside of their regular work schedule.

4. The awarding of scholarships, student loans, and student employment, including assistance to athletes, is handled through the Office of Student Personnel. All employed students, including athletes, are required to give full and honest work for pay received.

5. First semester freshmen are not employed on campus nor recommended for employment off campus. The position of the college is that students should not work during the first semester while they are making the adjustment to college life.

STUDENT AUTOMOBILE REGULATIONS

Because of the large number of cars used by students, traffic on the college campus is seriously congested. In the interest of safety and service rigid regulations have become necessary. All parking is limited to defined areas, and restricted parking is established in certain areas.

All motor vehicles operated by students must be registered and properly identified by campus registration stickers.

Freshmen living in campus dormitories are not permitted to bring cars to the campus. All students living off campus, either at home or in college approved housing, and within one-half mile of the campus will not be permitted to park on campus during school hours.

Failure to comply with motor traffic regulations will result in the assessment of a service fee and the loss of parking privileges. In certain areas, parking illegally will result in the vehicle being towed away. Persistent violators and those who refuse to comply with requests on notices will be subject to having the car immobilized or to temporary or even final suspension from classes. Each student using a vehicle on the campus is expected to be familiar with the traffic regulations.

PHYSICAL EXAMINATION

All students admitted to Fairmont State College, or who have been absent for two semesters, are required to have a physical examination by their personal physician. The physical examination forms will be sent to the student in time for the student to obtain the physical examination before reporting for Orientation Week. Failure to comply with the regulation on the part of the student will result in suspension until the regulation has been met.

HEALTH SERVICE

A physician and registered nurse are available to examine and advise students in matters pertaining to their health. On school days from 8 a.m. until 4:30 p.m., the college nurse may be found in her office in the Colebank Gymnasium for first aid and for the treatment of minor ailments of students and faculty. The college physician has regular campus office hours.

Group student hospital insurance is available to all full-time students at a very reasonable price. Each prospective student is mailed information pertaining to this insurance prior to the opening of school in the fall.

FOOD SERVICE

Breakfast, lunch, and dinner are served daily in the College Dining Hall with the exception of an evening meal on Sunday. Menus are carefully planned to provide nutritive diets with an attractive service at a reasonable price.

STUDENT CENTER BUILDING

The Student Center is a modern, spacious building centrally located on the campus.

On the ground floor, a large area has been finished for the Book Store and recreational purposes. The campus snack bar is located on the second floor, providing fountain service, soft drinks, coffee, cigarettes and confections. The center business offices for staff members is on this floor. The top floor contains the ballroom floor with facilities for such events as teas and receptions. All facilities of the Student Center are available to student groups for meetings, parties, dances and other social affairs.

BOOKS AND SUPPLIES

A modern college bookstore is maintained in the Student Center for the convenience of students. Textbooks and school supplies of all kinds may be purchased.

REQUIREMENTS FOR BACHELOR OF ARTS AND SCIENCE

Candidates for the Bachelor of Arts and Bachelor of Science degree must complete the General Studies Requirements and a major and a minor. Students majoring in Engineering Technology are not required to have a minor. The major and minor include all courses specified in this catalog as required and all other courses attempted in the disciplines designated as the major and minor.

Degrees are offered as follows:

Bachelor of Arts Degree

- Art
- Chemistry
- English
- History
- French
- Mathematics
- Music
- Political Science
- Psychology
- Sociology
- Speech and Drama

Bachelor of Science Degree

- Biology
- Business Administration
- Chemistry
- Engineering Technology
- Home Economics
- Mathematics
- Physical Education
- Recreation
- Secretarial Studies

All degrees granted by Fairmont State College have the same minimum requirements with regard to semester hours credit and quality point average. The minimum credit is 128 semester hours with an average of 2.0 quality points per semester hour for a course entered on the student's permanent record card. In all cases the quality point average for a major or minor must be 2.0 or better. **It is also a requirement for any degree granted by this college that the quality point average for all courses not included in the major or minor fields be 2.0 or better.** Moreover, all candidates for a Bachelor of Arts or Bachelor of Science degree must have both a major and a minor.

Courses taken to satisfy the general requirements will be included in the major or minor. Thus, a major student in English would count the general requirements in composition and literature as part of his major work.

Twelve hours of one foreign language is a general requirement for the Bachelor of Arts. Three hours of this requirement may be waived for each unit of the language presented as entrance credit, provided that the student is competent to continue the study of the language at the appropriate college level.

It is the responsibility of the student to know and meet all requirements.

GENERAL STUDIES REQUIREMENTS FOR THE BACHELOR OF ARTS AND THE BACHELOR OF SCIENCE DEGREES

English 104, 108, 250, 260		12
Fine Arts		2
Art 255	2	
or Music 205	2	
History and Social Science		12
Economics 200 or 201	3	
Geography 210	3	
History 108	3	
History 111	3	
History 112	3	
Political Science 103	3	
Psychology 103	3	
Sociology 110	3	
Language (A.B. degree only)		12
French or German 101, 102, 201, 202	12	
(Another foreign language may be substituted with permission)		
Physical Education		1
Any basic activities course. 102W, 103W, 111W, 112W, 113W, 114M, 115M, 116W, 117W, 128W, 130, 134W, 135W, 136, 143W, 146, 148, 228W, 230, 236, 241M, 245, or 247.		
Science and Mathematics		6
Biology 101, 102	6	
Chemistry 101, 102	8	
Chemistry 105, 106	10	
Mathematics	6	
Physical Science 201, 202	6	
Physics 101, 102	8	
Speech 101		3

SPECIFIC REQUIREMENTS IN ALL MAJOR FIELDS

ART

MAJOR			36 Sem. Hrs.
History of Art			11
255	History and Appreciation of Art	2	
278	Ancient and Medieval Art	3	
377	Italian and Northern Renaissance Art	3	
378	Nineteenth Century and Contemporary Art	3	
Studio Work Selected from two or more areas:			25
Ceramics and Sculpture			
283	Modeling and Sculpture	2-3	
284	Modeling and Sculpture	2-3	

383	Ceramics	2-3
384	Ceramics	2-3
464	Studio in Ceramics	2-3
465	Studio in Sculpture	2-3

Design

*140	Art Structure and Applied Design	3
*141	Art Structure and Applied Design	3

Drawing

*142	Drawing	2
241	Drawing from Life	2
242	Drawing and Painting from Life	3

Painting

261	Painting in Oil	2-3
262	Painting in Oil	2-3
361	Painting in Oil	2-3
362	Painting in Oil	2-3
363	Painting in Watercolor	2-3
364	Painting in Watercolor	2-3
463	Studio in Painting	2-3

*Required Courses

MINOR IN ART 24 Sem. Hrs.

History of Art Courses (See Above)	5
Studio Work Courses (See Above)	19

BIOLOGY

MAJOR 30 Sem. Hrs.

Required courses in Biological Science

Biology 101, 102, Introduction to Biology	6

A minimum of 6 hours from each group is required:

Group A: Botany 6

Biology	230	General Botany	4
	330	Field Botany	3
	340	The Plant Kingdom	3
	341	The Plant Kingdom	3
	342	Mycology	3
	451	Plant Physiology	3

Group B: Zoology 6

Biology	315	Field Zoology	3
	220	Invertebrate Zoology	4
	221	Vertebrate Zoology	4
	350	Comp. Anatomy of Vertebrates	4

Electives in Biological Science 12

Required related courses

Chemistry 101, 102, or	8 Sem. Hrs.
Chemistry 105, 106	10 Sem. Hrs.
Physics 101, 102	8 Sem. Hrs.
Mathematics 110 or higher	6 Sem. Hrs.

MINOR	24 Sem. Hrs.
Required courses in Biological Science Same as Major	18
Electives in Biological Science	6
Required related courses	
Chemistry 101, 102	8
Physics 101, 102	8
Mathematics 110 or higher	6

BUSINESS ADMINISTRATION

MAJOR				39 Sem. Hrs.
Required of all Curricula				18
Business	201, 202	Principles of Accounting	6	
	306, 307	Business Law	6	
Economics	201, 202	Econ. Prin. and Problems	6	

Select a minimum of 21 hours from one of the following groups:

Group A General				21
Business	304	Principles of Marketing	3	
	308	Personnel Management	3	
	309	Indus. Organization and Mgt.	3	
	310	Business Statistics	3	
	401	Business Finance	3	
	408	Intro. to Data Processing	2	
	410	Investments	3	
	429	Bus. Anal. & Machine Acct.	3	
	430	Introduction to FORTRAN IV	3	
Economics	303	Money, Credit, and Banking	3	
	307	Personal Finance	3	
	405	Economic Analysis	3	

Group B Accounting				21
Business	301, 302	Advanced Accounting	6	
	310	Statistics	3	
	401	Business Finance	3	
	404	Cost Accounting	3	
	405	Auditing	3	
	406, 407	Fed. Income Tax Accounting	6	
	408	Intro. to Data Processing	2	
	429	Bus. Anal. & Machine Acct.	3	
	430	Introduction to FORTRAN IV	3	

MINOR 18 Sem. Hrs.

(Not available to students taking a B.S. in the Commerce Division)

Business 201, 202, 304, 309 or 401
Economics 201, 202

CHEMISTRY

MAJOR (B.S. degree)

Required Courses 42 Sem. Hrs.

Chemistry	105, 106	Chemical Principles	10
	205	Analytical Chemistry	4
	206	Instrumental Analysis	4
	305, 306	Organic Chemistry	10
	405, 406	Physical Chemistry	8
	440	Intermediate Organic Chemistry	3
	450	Intermediate Inorganic Chemistry	3

Related Courses 32-35 Sem. Hrs.

Physics 101, 102 Introduction to Physics	8
Language	
French or German	12
Mathematics through Calculus III	12-15

MAJOR (A.B. degree)

Required Courses 37 Sem. Hrs.

Chemistry 105, 106, 205, 206, 305, 306, 340, 440, 450

Related Courses 15 Sem. Hrs.

Physics 101, 102
Mathematics 112, 115

MINOR

Required Courses 18-20 Sem. Hrs.

Chemistry 105, 106 and 205, 206 or 305, 306

Chemistry 101, 102, 103 may be substituted for 105, 106 in all programs.

ECONOMICS

MINOR 18 Sem. Hrs.

(Not available to students taking a B.S. in the Commerce Division)

Economics 201, 202, 301, 302, 303, 405

ENGINEERING TECHNOLOGY

Options are available in construction, drafting, electrical-electronic, industrial, mechanical and mechanical power. The program for the Printing Technology option is listed separately at the end of this section.

MAJOR 80 Sem. Hrs.

Required Courses 35 Sem. Hrs.

101	Basic Electricity I	2
102	Basic Electricity II	2
110	Basic Electronics I	2
111	Basic Electronics II	2
120	Drafting I	2
220	Drafting II	2
170	Statics	3
270	Strength of Materials	3
271	Strength of Materials Lab	1
180	Materials & Processes of Industry	2
190	Industrial Orientation	NC
191	Personnel Prob. & Labor Rel.	2
492	Work Study Seminar	4
493	Work Experience Laboratory	8

I.E. 492 and 493 may be waived for students who are employed full or part time if such employment is approved by the Director of Technical Education.

Required Related Courses 25 Sem. Hrs.

Math.	112	Intermediate Mathematics I or higher	3
Chem.	101-102	General Chemistry	8
Phy.	101-102	Introduction to Physics	8
Bus.	227	Industrial Organization	3
Bus.	327	Accounting for the Technician	3

Students must choose one of the following options.

CONSTRUCTION TECHNOLOGY OPTION 20 Sem. Hrs.

122-222	Architectural Drafting I & II	2-2
274-374	Graphic Solutions I & II	2-2
321	Structural Drafting	2
322	Architectural Design	2
372	Surveying	2
373	Computing & Estimating	2
375	Plumbing & Sanitation	2
376	Heating & Air Conditioning	2
392	Blueprint Reading	2-3
473	Contracts & Specifications	2
474	Codes & Practices	2

DRAFTING TECHNOLOGY OPTION 20 Sem. Hrs.

122-222	Architectural Drafting I & II	2-2
123	Machine Design	2
221	Graphic Illustration	2
223	Jigs & Fixtures	2
274-374	Graphic Solutions I & II	2
320-420	Drafting Room Techniques I & II	2-2
321	Structural Drafting	2
322	Architectural Design	2

323-423	Electrical Drafting I & II	2-2
373	Computing and Estimating	2
421	Drafting, Planning & Scheduling	2
422	Architectural Drafting III	2
473	Contracts and Specifications	2
474	Codes and Practices	2

ELECTRICAL-ELECTRONIC TECHNOLOGY OPTION 20 Sem. Hrs.

201-202	Electrical Measurements Laboratory I & II	2-2
204	Electrical Machinery DC	2
205	Electrical Machinery AC	2
315	Industrial Electronics & Controls	2
316-317	Advanced Electronics I & II	2-2
323-423	Electrical Drafting I & III	2-2
379	Industrial Economy	3

INDUSTRIAL TECHNOLOGY OPTION 20 Sem. Hrs.

167-267	Machine Shop I & II	2-2
192	Personnel Administration	2
315	Industrial Electronics & Controls	2
370-470	Manufacturing Processes I & II	2-2
377	Time & Motion Study	2
378	Plant Layout & Materials Handling	2
379	Industrial Economy	3
392	Blueprint Reading	2-3
477	Industrial Management	2
478	Production Controls	2

MECHANICAL TECHNOLOGY OPTION (ENGINEERING) 20 Sem. Hrs.

167-267	Machine Shop I & II	2-2
204	Electrical Machinery DC	2
205	Electrical Machinery AC	2
245	Hydraulics	2
274-374	Graphic Solutions I & II	2-2
345	Pneumatics	2
360	Metallurgy	2
370-470	Manufacturing Processes I & II	2-2
371	Thermodynamics	3
379	Industrial Economy	3
445	Fluid Mechanics	3
475	Dynamics	3

MECHANICAL TECHNOLOGY OPTION (POWER MECHANICS) 20 Sem. Hrs.

140	Engine Theory I	2
141	Engine Laboratory I	2
142	Power Transfer Theory I	2
143	Power Transfer Laboratory I	2
144	Carburetion and Ignition Theory I	2
145	Carburetion and Ignition Laboratory I	2

146	Hydraulic and Suspension Systems Theory I	2
147	Hydraulic and Suspension Systems Lab. I	2
371	Thermodynamics	3
445	Fluid Mechanics	3

PRINTING TECHNOLOGY OPTION 20 Sem. Hrs.

130	Printing Processes I	2
131	Printing Laboratory I	2
132	Typography I	2
133	Offset Printing I	2
134	Graphic Layout and Design I	2
232	Typography II	2
233	Offset Printing II	2
234	Graphic Layout and Design II	2
235	Printing Estimating	2
335	Printing Plant Management	2

Required related courses for Printing Technology Option 8 Sem. Hrs.

Sec. Stud.	101	Beginning Typewriting or	2
	102	Intermediate Typewriting	2
Journ.	240	Reporting I	3
Journ.	312	Publication Problems	3

ENGLISH

MAJOR 36 Sem. Hrs.

Required Courses, Studies and Practice in the English Language 104, 108, 321	9
Required Courses, Literature 250, 260	6
Electives 300-400 level, Literature Courses	15
Electives, 300-400 level, Composition and Language Courses	6

Foreign Language 12 Sem. Hrs.

MINOR 30 Sem. Hrs.

Required Courses, Studies and Practice in the English Language 104, 108, 321	9
Required Courses, Literature 250, 260	6
Electives, 300-400 level, Literature Courses	12
Electives, 300-400 level, Composition and Language Courses	3

FRENCH

MAJOR 30 Sem. Hrs.

Required Courses 15

101, 102	Elementary French or equivalent	6
*201, 202	Second Year French	6
308	French Conversation	3

Electives

210	Masterpieces of French Literature	3
301	Literature of the 17th Century	3
302	Literature of the 18th Century	3
309	Adv. Grammar and Comp.	3
421	Literature of the 19th Century	3
422	Literature of the 19th Century	3
431	French Civilization and Culture	3
321	Contemporary Literature	3

*French 210 may be substituted for French 201 or 202.

MINOR 24 Sem. Hrs.

Required Courses 15
101, 102, 201, 202, 308

Electives 9
To be selected from electives for major.

HISTORY

MAJOR 30 Sem. Hrs.

Required Courses

107, 108	United States History	6
111, 112	History of Civilization	6
470	Seminar	3

The remaining 15 semester hours in history are to be elected with the advisor's approval, but the student must take at least one course from each of the three groups listed below. History majors may not apply History 431 toward the 30 hours requirement.

GROUP I

312	Diplomatic History of the United States	3
315	Colonial America	3
317	Civil War and Reconstruction	3
319	Recent America	3
320	American Economic History	3
371	Social and Intellectual History of the United States I	3
372	Social and Intellectual History of the United States II	3
380	Afro-American History and Culture	3

GROUP II

305	History of England I	3

306	History of England II	3
330	Europe from 1300 to 1763	3
331	Europe from 1763 to 1850	3
340	Europe from 1850 to 1919	3
341	Europe from 1919 to the Present	3
360	European Intellectual History	3

GROUP III

350	Latin America: The Colonial Period	3
351	Latin America: The National Period	3
422	History of the Far East	3
423	History of Southeast Asia	3
450	History of Russia I	3
451	History of Russia II	3

MINOR 18 Sem. Hrs.

Required Courses

107, 108	United States History	6
111, 112	History of Civilization	6

Electives

Any other history courses except 431	6

HOME ECONOMICS

MAJOR 35 Sem. Hrs.

Required Courses

101	Principles of Clothing Construction	2
102	Advanced Clothing Selection	3
103	Principles of Clothing Selection	2
201	Principles of Food Selection and Preparation	3
202	Advanced Foods	3
210	Textiles	3
303	Nutrition	3
310	Family Life Education	3
312	Consumer Education	3
315	Home Management	3
320	Home Planning and Furnishing	4
330	Child Care and Development	3

Required Related Courses

Language—Modern Foreign	6
Chemistry	8
Electives in Science (Consent of Advisor)	4

MINOR 26 Sem. Hrs.

Same requirements as listed under Home Economics Subject Specialization for grades 5 through 9.

JOURNALISM

MINOR 16 Sem. Hrs.

240	Reporting	3
260	News Photography	2
270	Communications in Society	2
271	History of American Journalism	3
312	Publication Problems	3
343	Copy Editing and Make-Up	3

MATHEMATICS

MAJOR* 31 Sem. Hrs.

Required Courses** 25

115	Intermediate Mathematics II	4
116	Calculus I	4
215	Calculus II	4
216	Calculus III	4
361	Abstract Algebra	3
391	Introduction to Analysis	3
401	Differential Equations	3

Electives in Mathematics 6
(To be selected by student and advisor)

Language: French or German 12

MINOR 25

Required Courses
115, 116, 215, 216, 361, 391, 401

*It is expected that students will present a minimum of four units of high school mathematics including two units of algebra, one unit of integrated geometry (or equivalent), and a fourth unit requiring algebra and geometry as prerequisites. Students who present less than this expected preparation may be required to complete appropriate courses in addition to the above requirements.

**Students should consult with their advisor concerning credit for prerequisites and special examination for course credit.

MUSIC

For Departmental Requirements See Music Teaching Field.

MAJOR 49 Sem. Hrs.

Required Courses

Theory 12

109-110	Theory	8
209	Theory	4

Applied Music 10

107	Piano	4
141	Voice	2

*211-217	Orchestral Instruments	4	
Appreciation			9
206	Music Appreciation	3	
313	History	3	
314	History	3	
Conducting			5
245	Fundamentals of Conducting	2	
429 or 430	Instrumental or Choral Methods (Includes Advanced Conducting)	3	
**Participation			8
169	Band	1-4	
173	College Chorus	1-4	
275	Advanced Instrumental Ensemble	1-4	
277	Advanced Vocal Ensemble	1-4	
Electives			5

MINOR 27 Sem. Hrs.

Theory			8
109-110	Theory	8	
Appreciation			3
206	Music Appreciation	3	
Applied Music			8
107	Piano (Min. 3)		
141	Voice (Min. 1)		
211-217	Orchestral Instruments (Min. 3)		
Conducting			5
245	Fundamentals of Conducting	2	
429 or 430	Instrumental or Choral Methods (Includes Advanced Conducting)	3	
Participation (See Courses Above)			3

*Advanced work on organ or a special orchestral instrument may be done to satisfy the 4 hours required in this group.

**All students majoring or minoring in music must participate in at least one campus major performing group during each semester of college attendance.

PSYCHOLOGY

MAJOR 30 Sem. Hrs.

Required Courses

103	General Psychology	3
250	Experimental Psychology	3
275	History of Psychology	3
300	Psychology of Personal Adjustment	3
325	Abnormal Psychology	3
350	Statistics	3
375	Physiological Psychology	3
400	Psychometrics	3
425	Clinical Psychology	3
460	Seminar	3

MINOR 12 Sem. Hrs.

Required Courses: 103, 350

PHYSICAL EDUCATION

MAJOR 40 Sem. Hrs.

The requirements are the same as those for the Health and Physical Education teaching field, grades 7-12. See the Bachelor of Arts in Education section of this catalog.

POLITICAL SCIENCE

MAJOR 30 Sem. Hrs.

Required Courses		
103	American National Government	3
Electives in Political Science		27

MINOR 15 Sem. Hrs.

Required Courses		
103	American National Government	3
Electives		
	Any other Political Science Courses	12

PHYSICS

MINOR 22-25 Sem. Hrs.

Required Courses
- Physics 101, 102, 201, and 310
- Physics 320, 321, or 420, 421
- Physics 340
- Mathematics 112, 115, and 116

RECREATION

MAJOR 55-56 Sem. Hrs.

Required Courses			
Professional Recreation			15 Sem. Hrs.
108	Introduction to Recreational Supervision	3	
282	Community and Industrial Recreation	3	
385	Recreational Leadership	3	
386	Recreational Field Work and Inspection	3	
490	Outdoor Education	3	
Health and Safety			5 Sem. Hrs.
101	First Aid	2	
202	Community Health	3	
Activities and Sports (Men)			12 Sem. Hrs.
118M	Fundamental Skills and Exercise	3	

119M	Intermediate Skills and Activities	3
	All elective activities at the discretion of the advisor	6

Activities and Sports (Women) 12 Sem. Hrs.

143W	Individual and Dual Sports	2
148 or 247	Modern or Folk and Square Dancing	2
	All elective activities at the discretion of the advisor	8

Rhythms and Creative Arts 18 Sem. Hrs.

Art	140	Art Structure and Applied Design	3
Art	383	Ceramics	3
HPER	247	Folk and Square Dance	2
I.E.	186	Recreational Crafts	2
Music	231	Elementary Music I	3
Speech	151	Play Production	2
Speech	331	Children's Drama	2
Speech	331L	Children's Drama Lab	1

Science 5-6 Sem. Hrs.

HPER	302	Foundations of Science in Physical Ed.	3
Biol.	200, 242, 315, 330		2-3

All Recreation majors must take a swimming exam to determine which course or courses must be taken.

All men and women Recreation majors must participate in extracurricular activities which the departmental staff decides will help the student become more competent in his field.

SECRETARIAL STUDIES

MAJOR 33 Sem. Hrs.

Required Courses

102	Intermediate Typewriting	2
211	Advanced Typewriting	2
251	Business Correspondence	2
301, 302	Advanced Shorthand and Transcription	8
303	Principles and Practices of Filing	2
311	Office Machines	2
312	Card Punching	2
314	Dictation and Transcription	2
351	Secretarial Office Practice	2
351L	Secretarial Office Practice Lab	1
201, 202	Principles of Accounting	6
Home Ec. 103	Principles of Clothing Selection	2

MINOR 21 Sem. Hrs.

Required Courses

101, 102	Beginning and Intermediate Typewriting or	
211	Advanced Typewriting	4
201, 202	Beginning Shorthand	8
301	Advanced Shorthand	4
311	Office Machines	2
201	Principles of Accounting	3

SOCIOLOGY

MAJOR			24 Sem. Hrs.
Required Courses			12
110	Introductory Sociology	3	
200	Social Problems	3	
301	Anthropology	3	
470	Sociological Theory	3	
Electives in Sociology			12
MINOR			18 Sem. Hrs.
Required Courses			9
110	Introductory Sociology	3	
200	Social Problems	3	
301	Anthropology	3	
Electives in Sociology			9

SPEECH AND DRAMA

MAJOR			31 Sem. Hrs.
Required Courses			24
101	Fundamentals of Speech	3	
105	Voice and Diction	3	
151	Play Production	2	
221	Oral Interpretation	2	
237	Effective Speaking	2	
243	Debate	3	
245	Oratory	1	
330	Fund. of Radio and T.V.	2	
336	Play Directing	2	
336L	Play Directing Lab	1	
430	Speech Correction	3	
Electives			7
MINOR			24 Sem. Hrs.

Required Courses:

Same as required courses for the major.

REQUIREMENTS FOR THE BACHELOR OF ARTS IN EDUCATION DEGREE

The education of teachers at Fairmont State College is designed to utilize the cooperative functions of the several subject matter areas and the division of professional education. The philosophy of the College is that adequate preparation for teaching requires rich and comprehensive experience in the area of general education, concentration in a comprehensive or in two of the subject matter fields, and the development of certain attitudes, skills and understanding which characterize effective teaching. The State Board of Education has adopted a program of general and professional education which is required of all students preparing for teaching.

TEACHING FIELDS AND SPECIALIZATIONS

Fairmont State College offers teaching curricula leading to the degree of Bachelor of Arts in Education. Students satisfactorily completing the teaching curriculum in a given area will qualify for a Professional Certificate, grades 7-12, 1-9 or 1-12.

In planning for a career in elementary or secondary teaching, students may qualify for an assignment in the following fields or specialization:

Art
Biological, General-Earth Science
Biological Science
Business Education
Business Education, Secretarial
Chemistry, General-Earth Science
English
French
General-Earth Science
Health and Physical Education
Home Economics
Industrial Arts
Journalism
Kindergarten-Primary
Language Arts
Librarian (School Librarian)
Mathematics
Music
Physics, General-Earth Science
Social Studies
Speech

It is the responsibility of candidates for a degree to know and to meet the general requirements of the College and the specific requirements of the chosen curriculum. It is the student's responsibility also to keep informed on his grade-point standing. All of this information may be obtained from the student's advisor or from the Office of the Director of Teacher Education.

ADMISSION TO TEACHER EDUCATION

Any student of sophomore standing may enroll in the first professional course, Education 200, Introduction to Education. Students are not expected, in this course, to make a decision or an application for admission to teacher education. It is required of all teacher education students, and non-education students may take it as an elective.

The form, "Student Information Form, T-Form 63," is to be completed and filed with the Education Department before the completion of Education 200. A student will receive an "I" grade in this course until this form is filed.

In order to be eligible for enrollment in Education 302, Human Growth and Development, a student must be in good academic standing (i.e., he must not be on academic probation). The completion of Education 200 is also a requirement for enrollment in this course.

While enrolled in Education 302, those interested in pursuing the Teacher Education program shall make formal application by completing the form, "Application for Admission to the Teacher Education Program." To be accepted, the applicant must have a minimum quality point average of 2.0, overall and in each area of concentration or teaching field. He must have satisfactorily completed the required Written English courses. (See General Education requirements.) He must, at the time of application, be passing Education 302. As a part of this application he must secure a favorable recommendation from the Health Department, the Social Dean, and his class advisor.

Toward the close of the semester in which the student is enrolled in Education 302, the Selection Committee evaluates the information in his folder and arrives at one of the following decisions: Approved; Approved Conditionally; or Disapproved. The student is to be notified in writing of the Committee's decision, and he shall have the opportunity of appearing before the Committee if he is dissatisfied with its conclusions.

If a student has satisfactorily completed Education 302 and has approval of the Selection Committee, he is eligible to enroll in Education 303, Human Growth and Development. While in this course, Teacher Education students shall make application for the Professional Block.

THE BLOCK SYSTEM

Fairmont State College has adopted the block system for scheduling directed teaching. The significant features of this plan are: (1) a semester is reserved for the student in which he or she will schedule a block of professional subjects, including methods and directed teaching; (2) a section of that semester will be used exclusively for directed teaching; (3) during this period, the daily assignment for student teaching will comprise all hours the school is in session; (4) in addition to classroom assignments, student teachers will participate in the extra-curricular activities of the school and community.

One semester of the senior year will be used for scheduling a block of approximately 17 semester hours of professional courses. To schedule the Block a student must meet the requirements for directed teaching as described below. Students and advisors should understand that the block system requires exact planning during the early years of the college career as well as in the senior year. All general studies requirements of the College as well as the minimum requirements of the teaching fields will have to be completed before the Block can be scheduled.

Eligibility for the Professional Block is determined by the ability of the student to meet the following requirements:

1. a. Completion of 90 semester hours including 8 hours in education courses, and three-fourths of the required work in each teaching field or area of specialization. All courses in the teaching fields which are marked by an asterisk in this catalog must be completed before admission to the Block.

   b. Satisfactory completion of English 108, Advanced Written English, with a grade of C, and Speech 210 with a grade of C.

2. Divisional approval of the candidate's comprehensive field or two teaching fields and completion of professional education courses which are prerequisite to the block courses.

3. Completion of the September Experience in a public school of the student's choice observing the opening and organization of a school.
4. Students must have an average of C or better.
    a. On all semester hours to be counted toward graduation.
    b. On all semester hours earned in the department of education.
5. Have a 2.2 quality point average in each teaching field or specialization.
6. Present a statement from the college health department showing that the student has been given a physical examination and found to be physically fit for assignment to directed teaching.

Students will **not** be permitted to schedule courses outside the Block or extracurricular activities which will in any way interfere with the course work.

STUDENT TEACHING

Student teaching is required in all curricula. Students must complete student teaching at the grade levels and in at least one of the teaching fields in which they expect to be certified. At the present time, elementary school training is provided in Marion County. Secondary training is given in connection with Marion, Harrison, Monongalia, and Taylor County junior and senior high schools. All student teaching is under the joint direction of Fairmont State College and the Board of Education of the county in which the teaching is done.

NATIONAL TEACHER EXAMINATION

All students in the Teacher Education Program are required to take the National Teacher Examination prior to being recommended for graduation.

SUMMARY OF DEGREE REQUIREMENTS

Briefly stated, the requirements for the Bachelor of Arts in Education degree are: The candidate must earn a minimum of 128 hours credit in approved subjects with a quality point average of 2.0, or better, for all courses attempted and for all professional courses. He must attain a 2.2 average in each teaching field or specialization and shall meet the general and specific requirements set up for the curriculum and teaching fields he elects.

TEACHING CURRICULA

Grades 7 through 12

Each student who is qualifying for teaching and/or for school services in grades 7 through 12 shall complete the following:

I. General Studies
II. Professional Education
III. Specialization

(a) One comprehensive field of specialization authorizing him to teach in grades 7 through 12 the related subjects which comprise the comprehensive specialization

or

(b) Two single subject specializations for grades 7 through 12

or

(c) One single subject specialization for grades 7 through 12 and one designed for grades 7 through 9, identical with the specialization required for grades 1 through 9.

Grades 1 through 12

Each student who is qualifying for the teaching of Art, Music, or Health nd Physical Education in grades 1 through 12 shall complete the following:

I. General Studies

II. Professional Education

To include methods and student teaching of the single subject specialization at both the elementary and secondary levels.

II. Specialization

Music—one comprehensive specialization

Art or Health and Physical Education—The curriculum for teaching field grades 1-12, and one single subject specialization 7-12 or a junior high specialization 1-9.

Grades 1 through 9

Each student who is qualifying for teaching and/or for school services in rades 1 through 9 shall complete the following:

I. General Studies

II. Professional Education

II. Specialization

(a) The Diversified Program for teaching in a self-contained classroom

and

(b) One Subject Specialization for team teaching and departmental teaching in grades 1 through 9.

GENERAL STUDIES REQUIREMENTS FOR THE BACHELOR OF ARTS IN EDUCATION DEGREE

Minimum 40 Hours

I. Humanities	Minimum 17 hrs., Maximum 21 hrs.
Required:	
English Composition	6
English 104, 108	
Literature	6
English 250, 260	
Speech 210	3
Art 255 or Music 205	2
Approved electives in humanities	
Art 255 or Music 205 (not used above)	2
Philosophy 200	3

II. Social Science .... Minimum 12 hrs., Maximum 15 hrs.

Economics 200 or 201	3
Geography 210	3
History 108	3
History 111	3
History 112	3
Political Science 103	3
Psychology 103	3
Sociology 110	3

III. Science and Mathematics .... Minimum 6 hrs., Maximum 10 hrs.
Students electing science must take two courses in one discipline.

Biology 101, 102	6
Chemistry 101, 102	8
Chemistry 105, 106	10
Mathematics	3-6
Physical Science 201, 202	6
Physics 101, 102	8

IV. Physical Education .... Minimum 1 hr., Maximum 2 hrs.
Any basic activity course. Present offerings are: 102W, 103W, 111W, 112W, 113W, 114M, 115M, 116W, 117W, 128W, 130, 134W, 135W, 136, 143W, 146, 148, 228W, 230, 236, 241M, 245 or 247.

Maximums in each field apply only to courses used for the general studies requirement. Students may elect additional courses in any field.

Students changing to the A.B. Ed. program who have credit for Speech 101 with a grade of C or better may substitute it for Speech 210.

REQUIRED PROGRAM OF PROFESSIONAL EDUCATION FOR BACHELOR OF ARTS IN EDUCATION DEGREE

Ed. 200	Introduction to Education	2
Ed. 302	Human Growth and Development	3
Ed. 303	Human Growth and Development	3

The allocation of course work in the Professional Block is as follows:

Curriculum for Grades 7-12

Ed. 400	Foundations of Education	2
Ed. 430	Methods of Teaching Reading in the Secondary Schools	2
Ed. 440	Principles of Teaching in the Secondary Schools	2
Ed. 442	General Methods of Teaching in the Secondary Schools	2
Ed. 450	Observation and Directed Teaching	7
431*	Methods and Materials in Teaching	2

Curriculum for Grades 1-12

Ed. 400	Foundations of Education	2
Ed. 405	Materials and General Elementary Methods	2
Ed. 410	Methods in Elementary Language Arts	2

Ed.	442	General Methods of Teaching in the Secondary Schools	2
Ed.	425	Observation and Directed Teaching	7
	431*	Methods and Materials in Teaching	2

*The student who elects a comprehensive field must include 431, Methods and Materials in the comprehensive area. If he elects to complete two single subject specializations, he may choose Methods and Materials in either specialization. Should he elect to complete a single subject specialization in grades 7 through 12 and one for grades 7 through 9, he is required to complete Methods and Materials in the 7 through 12 area.

Curriculum for Grades 1-9

Ed.	400	Foundations of Education	2
Ed.	405	Materials and General Elementary Methods	2
Ed.	410	Methods in Elementary Language Arts	2
Ed.	415	Methods in Elementary Social Studies	2
Ed.	420	Observation and Directed Teaching	7
Sci.	412	Science for the Elementary School	2

ELEMENTARY EDUCATION, GRADES 1-9

A. Required Diversified Program for self-contained classroom

*Art	353-354	Elem. Art Education	4
*Biol.	101-102	Introduction to Biology	6
*Eng.	207	Children's Literature	3
*Geog.	210	World Regional Geography	3
HPER	310	School Health Problems	3
*HPER	328	Games & Rhythms for Elem. Schools	2
*Hist.	107-108	United States History	6
*Hist.	111-112	History of Civilization	6
Hist.	302	West Virginia History	3
*Math	110	Basic Mathematics	3
*Math	210	Mathematics for Elem. Teachers	3
*Phys. Sci.	201-202	General Physical Science	6
Pol. Sci.	103	American Government	3

*Courses marked with an asterisk must be completed before admission to the Professional Block.

B. Subject Specializations, Grades 1-9

Art	28	Sem. Hrs.
French	24	
General-Earth Science	31	
Health, Physical Education, Recreation, and Safety	31	
Home Economics	25-26	
Industrial Art	24	
Language Arts	24	
Mathematics	27	
Music	26	
School Librarian	18	
Social Studies	36	
Speech	18	

C. Kindergarten - Primary

Students who are qualifying for a Professional Certificate, Grades 1-9, may wish to add the Kindergarten - Primary endorsement to their certificate.

Curriculum For Kindergarten—Primary, K-3.

Required Courses			20 Sem. Hrs.
Art	352	Kindergarten—Primary Art	2
Education	310	Kindergarten—Primary Organization and Curriculum	3
Education	410	Methods in Elementary Language Arts	2
Music	230	Kindergarten—Primary Music	2
Speech	331	Children's Drama	2
Speech	331L	Children's Drama Laboratory	1
Speech	430	Speech Correction	3
I.E.	386	Industrial Arts for the Ele. Teacher	2
Home Ec.	330	Child Care and Development	3

CURRICULA FOR TEACHING FIELDS AND SPECIALIZATIONS

Courses marked with an asterisk must be completed before a student is admitted to the Professional Block.

Art

Curriculum for Teaching Field. Grades 1-12

Required Courses			48 Sem. Hrs.
* Art	140	Art Structure and Applied Design	3
* Art	141	Art Structure and Applied Design	3
* Art	142	Drawing	2
* Art	241	Drawing from Life	2
Art	242	Drawing and Painting from Life	3
* Art	255	History and Appreciation of Art	2
* Art	261	Painting in Oil	3
Art	278	Ancient and Medieval Art	3
Art	283	Modeling and Sculpture	3
* Art	353	Elementary Art Education I	2
Art	354	Elementary Art Education II	2
Art	363	Painting in Watercolor	3
Art	377	Italian and Northern Renaissance Art	3
Art	378	19th Century and Contemporary Art	3
Art	383	Ceramics	3
Art	431	Methods and Materials in Teaching Art	2
Electives			6

Curriculum for Teaching Field. Grades 7-12

Required Courses			37 Sem. Hrs.
* Art	140	Art Structure and Applied Design	3
* Art	141	Art Structure and Applied Design	3
* Art	142	Drawing	2
Art	241	Drawing from Life	2
* Art	255	History and Appreciation of Art	2

*	Art	261	Painting in Oil	3
	Art	278	Ancient and Medieval Art	3
	Art	283	Modeling and Sculpture	3
*	Art	353	Elementary Art Education I	2
	Art	354	Elementary Art Education II	2
	Art	363	Painting in Watercolor	3
	Art	377	Italian and Northern Renaissance Art	3
	Art	378	19th Century and Contemporary Art	3
	Art	383	Ceramics	3

Curriculum for Subject Specialization. Grades 1-9.

Required Courses 28 Sem. Hrs.

*	Art	140	Art Structure and Applied Design	3
*	Art	141	Art Structure and Applied Design	3
*	Art	142	Drawing	2
*	Art	241	Drawing from Life	2
*	Art	255	History and Appreciation of Art	2
*	Art	283	Modeling and Sculpture	3
*	Art	353	Elementary Art Education I	2
*	Art	354	Elementary Art Education II	2
*	Art	363	Painting in Watercolor	3
	Electives			6

BIOLOGICAL, GENERAL-EARTH SCIENCE (Comprehensive) 54 Sem. Hrs.

Required in Biological Science 24 Sem. Hrs.

*	Biology	101	Introduction to Biology	3
*	Biology	102	Introduction to Biology	3

Group A-Minimum* 6

Biology	230	General Botany	4
Biology	330	Field Botany	3
Biology	340	Plant Kingdom I	3
Biology	341	Plant Kingdom II	3
Biology	342	Mycology	3
Biology	440	Plant Anatomy	3
Biology	451	Plant Physiology	4

Group B-Minimum* 6

Biology	200	Ornithology	2
Biology	220	Invertebrate Zoology	4
Biology	221	Vertebrate Zoology	4
Biology	315	Field Zoology	3
Biology	350	Comparative Vertebrate Anatomy	4
Biology	411	Histology	4
Biology	420	Vertebrate Embryology	4
Biology	450	Mammalian Physiology	4

Electives: May be elected from groups A or B of from group C listed below. 6

Group C

Biology	224	Microbiology	3
Biology	242	Bio-ecology	3

Biology	380	Principles of Genetics	3
Biology	381	Principles of Evolution	2
Biology	495	Problems in Biological Sciences	2

Required related courses 30 Sem. Hrs.

* Chemistry	101	General Chemistry	4
* Chemistry	102	General Chemistry	4
* Physics	101	Introduction to Physics	4
* Physics	102	Introduction to Physics	4
Geology	201	Physical Geology	3
Physics	202	Astronomy	3
* Mathematics	110	or higher	6
Science	431	Methods and Materials in Teaching Science	2

BIOLOGICAL SCIENCE (Single Field 7-12) 46 Sem. Hrs.

Same as required in Biological Science above but omit Geology 201, Physics 202, and Science 431.

BUSINESS EDUCATION (Comprehensive) 43 Sem. Hrs.

* Business	141	Business Mathematics	3
* Business	201-202	Principles of Accounting	6
Business	304	Marketing	3
Business	306	Business Law	3
* Economics	201-202	Economic Principles and Problems	6
Economics	303	Money, Credit and Banking	3
* Sec. Stud.	102-211	Intermediate & Advanced Typewriting	4
Sec. Stud.	311	Office Machines	2
* Sec. Stud	301-302	Advanced Shorthand and Transcription	8
* Sec. Stud.	351	Sec. Office Practice	2
Sec. Stud.	351L	Sec. Office Practice Lab	1
Business	431	Meth. & Mat. in Teaching Bus. Ed.	2

BUSINESS EDUCATION (Secretarial) (A second teaching field is required with this program.) 26 Sem. Hrs.

* Business	141	Business Mathematics	3
* Business	201-202	Principles of Accounting	6
* Sec. Stud.	301-302	Advanced Shorthand & Transcription	8
* Sec. Stud.	102-211	Intermediate & Advanced Typewriting	4
Sec. Stud.	311	Office Machines	2
* Sec. Stud.	351	Sec. Office Practice	2
Sec. Stud.	351L	Sec. Office Practice Lab.	1

CHEMISTRY, General-Earth Science (Comprehensive) 47 Sem. Hrs.

* Chemistry	105, 106	Chemical Principles	10
* Chemistry	205	Analytical Chemistry	4
* Chemistry	206	Instrumental Analysis	4
* Chemistry	305	Organic Chemistry	4
* Chemistry	340	Physical Approach to Modern Chem.	3
* Physics	101	Introduction to Physics	4
* Physics	102	Introduction to Physics	4
Physics	202	Astronomy	3

* Geology	201	Physical Geology	3
Biology	101	Introduction to Biology	3
Biology	102	Introduction to Biology	3
Science	431	Meth. & Mat. in Teaching Science	2

Chem. 101, 102, 103 may be substituted for 105, 106.

CHEMISTRY (Single Field 7-12) 40 Sem. Hrs.

Same as required in Chemistry above but omit Geology 201, Physics 202, and Science 431.

ENGLISH (See Language Arts)

Curriculum for Single Teaching Field 7-12

Required Courses 36 Sem. Hrs.

* 104	Written English	3
* 108	Advanced Written English	3
* 250	Survey of English Literature	3
* 260	Survey of American Literature	3
* 321	Study of English Language	3

Electives

300—400 level language and composition courses	6
300—400 level literature courses	15

FRENCH (Teaching field, grades 7-12) 30 Sem. Hrs.

101	Elementary French	3
102	Elementary French	3
201	Second Year French	3
202	Second Year French	3
308	Conversation or	3
309	Advanced Grammar and Composition	3
400	Seminar	3

Electives from the following courses 9-12

210	Masterpieces of French Literature	3
301	Literature of the 17th Century	3
302	Literature of the 18th Century	3
309	Advanced Grammar and Composition	3
421	Literature of the 19th Century	3
422	Literature of the 19th Century	3
430	French Civilization and Culture	3
321	Contemporary Literature	3
210	May be substituted for French 201 or 202	

FRENCH—Curriculum for Subject Specialization 1-9

Required Courses 24 Sem. Hrs.

101	Elementary French	3
102	Elementary French	3
201	Second Year French	3
202	Second Year French	3
308	Conversation or	3
309	Advanced Grammar and Composition	3
400	Seminar	3
Electives		3-6

GENERAL-EARTH SCIENCE (Subject Specialization, grades 1-9) 31 Sem. Hrs.

Biology	101, 102	Introduction to Biology	6
* Chemistry	101, 102	General Chemistry	8
* Physics	101, 102	Introduction to Physics	8
* Geology	201	Physical Geology	3
* Physics	201	Demonstrations in Physics	3
* Physics	202	Astronomy	3

HEALTH AND PHYSICAL EDUCATION

Required Courses		Grades 7-12 40 Sem. Hrs.		Grades 1-12 49 Sem. Hrs.	
Science			6		9
* 304	Anatomy and Physiology	3		3	
* 305	Kinesiology	3		3	
407	Physiology of Exercise			3	
Foundations			11		11
* 250	Foundations of Physical Education	3		3	
360	Evaluating and Assisting	3		3	
* 362	Organization and Administration of Health, Physical Education and Recreation	3		3	
* 408	Adapted Physical Education	2		2	
Methods					2
431	Methods and Materials in Teaching Physical Education			2	
Health Education and Safety Education			8		8
* 100	Personal Health and Safety	3		3	
* 101	First Aid	2		2	
* 301	School Health Problems	3		3	
Physical Education Activities (Men)			15		19
* 118M	Fundamental Skills and Exercise	3		3	
241M	Individual and Dual Sports	2-3		2-3	
247	Folk and Square Dancing	2		2	
328	Games and Rhythm in the Elementary School			2	
329	Physical Education in Elementary School			2	
or					
(Women)					
143W	Individual and Dual Sports	2		2	
148	Modern Dance	2		2	
or					
247	Folk and Square Dancing	2		2	
328	Games and Rhythm in the Elementary School			2	
329	Physical Education in Elementary School			2	

A minimum of three hours to be selected from the following:

111W	Track and Field	1-2	1-2
112W	Field Hockey	1-2	1-2
113W	Softball	1-2	1-2
116W	Soccer	1-2	1-2
117W	Basketball	1-2	1-2
134W	Volleyball	1-2	1-2

Activity electives for men and women, 7-12 and 1-12

All additional courses completing the above 15-19 semester hours of activities are to be selected with the help of the advisor to insure a balance between team, individual and dual activities.

All H.P.E.R. teaching field students must take a swimming exam to determine which swimming course or courses must be taken.

In addition to the above requirements, all men and women physical education teaching field students must participate in extracurricular activities which the departmental staff decides will help the student become a more competent physical educator. As a Freshman, the student will be expected to participate throughout the entire academic year; as a Sophomore, the equivalent of at least one semester, and as a Junior or Senior, at the discretion of the departmental staff.

Curriculum for Subject Specialization in Grades 1-9

Required Courses			31 Sem. Hrs.
Science			3
302	Foundations of Science in Physical Education	3	
Foundations			6
* 250	Foundations of Physical Education	3	
* 362	Organization and Administration of Health, Physical Education, and Recreation	3	
Health Education and Safety Education			8
100	Personal Health and Safety	3	
* 101	First Aid	2	
310	School Health Problems	3	
Physical Education Activities (Men)			14
* 118M	Fundamental Skills and Exercises	3	
or			
* 119M	Intermediate Skills and Activities	3	
* 328	Games and Rhythm in the Elementary School	2	
329	Physical Education in the Elementary School	2	
	Electives to include individual, dual and team sports, aquatics and rhythmic activities with the consent of advisor	7	
(Women)			
* 135W	Fundamental Skills	2	
328	Games and Rhythm in the Elementary School	2	
329	Physical Education in the Elementary School	2	
	Activity electives to include individual, dual and team sports, aquatics and rhythmic activities with the consent of advisor	8	

HOME ECONOMICS (Comprehensive) 42 Sem. Hrs.

Clothing-Textiles

*	101	Principles of Clothing Construction	2
*	102	Advanced Clothing Construction	3
*	103	Principles of Clothing Selection	2
*	210	Textiles	3

Family Relations-(Child Development)

*	310	Family Life	3
*	330	Child Care and Development	3

Foods-Nutrition

*	201	Prin. of Food Selection & Preparation	3
*	202	Advanced Foods	3
*	303	Nutrition	3

Home Management, Household Equipment, Family Economics

	312	Consumer Education	3
*	315	Home Management	3
	316	Household Equipment	2

Housing, Home Furnishing

*	320	Home Planning and Furnishing	4
	351	Home Arts	3
	431	Meth. & Mat. in Teaching Home Ec.	2

General Chemistry 101 and 102 strongly recommended.

HOME ECONOMICS (Subject specialization, grades 1-9) 25-26 Sem. Hrs.

*	101	Principles of Clothing Construction	2
*	103	Principles of Clothing Selection	2
*	201	Prin. of Food Selection & Preparation	3
		or	
*	202	Advanced Foods	3
*	303	Nutrition	3
*	310	Family Life	3
	315	Home Management	3
		or	
	312	Consumer Education	3
	316	Household Equipment	2
		or	
	210	Textiles	3
*	320	Home Planning and Furnishing	4
*	330	Child Care and Development	3

INDUSTRIAL ARTS (Comprehensive—Second Teaching Field not required) 56 Sem. Hrs.

FOUNDATION COURSES (Required) 34 Sem. Hrs.

101-102	Basic Electricity I & II	2-2
120	Drafting I	2
130	Printing Processes	2
160	Hand Woodworking	2
165	Cold Metal Processing	2
180	Materials and Processes of Industry	2
181	General Shop I	2
220	Drafting II	2

	260	Machine Woodworking	2
	265	Hot Metal Processing	2
*	281	General Shop II	2
*	380	Philosophy of Industrial Arts	2
*	381	Organization & Administration of Industrial Arts	2
	385	School Shop Maintenance I	2
*	481	General Shop III	2
	431	Methods & Materials of Teaching Industrial Arts	2

Thirty-four hours of technical work must be completed before admission to the Block.

AREAS OF SPECIALIZATION 24 Sem. Hrs.

Select twelve hours each from two of the following areas of specialization. The twelve hours may include electives from the same group if each substitution is approved by the department chairman.

ELECTRICAL-ELECTRONICS

110	Basic Electronics I	2
111	Basic Electronics II	2
201	Electrical Measurements Lab I	2
202	Electrical Measurements Lab II	2
204	Electrical Machinery DC	2
205	Electrical Machinery AC	2
315	Industrial Electronics & Controls	2
316	Advanced Electronics I	2
317	Advanced Electronics II	2

Electives: 323, 415, 416, 417, 423

GENERAL FABRICATION

186	Recreational Crafts	2
284	Plastics I	2
285	Industrial Design	2
286	Crafts	2
289	Ceramics	2
384	Plastics II	2
386	Industrial Arts for the Ele. Teacher	2
392	Blueprint Reading	2

Electives: 132, 133, 232, 233, 140, 141

GRAPHICS (Drafting)

122	Architectural Drafting I	2
222	Architectural Drafting II	2
123	Machine Design	2
223	Jigs & Fixtures	2
320	Drafting Room Techniques I	2
420	Drafting Room Techniques II	2
221	Graphic Illustration	2
321	Structural Drafting	2

Electives: 274, 285, 322, 323, 374, 421, 422

GRAPHICS (Printing)

130	Printing Processes	2
131	Printing Laboratory I	2
132	Typography I	2
232	Typography II	2
133	Offset Printing I	2
233	Offset Printing II	2
134	Graphic Layout & Design I	2
234	Graphic Layout & Design II	2

Electives: 136, 137, 235, 333, 334, 335, 433, 434, 435

MANUFACTURING (Metals)

161	Gas Welding I	2
162	Arc Welding I	2
163	Sheet Metal I	2
263	Sheet Metal II	2
167	Machine Shop I	2
267	Machine Shop II	2
360	Metallurgy	2
485	School Shop Maintenance II	2
370	Manufacturing Processes I	2
470	Manufacturing Processes II	2

Electives: 261, 262

MANUFACTURING (Woods)

166	Building Construction (Res.) I	2
266	Building Construction (Ind.) II	2
391	Wood Finishing	2
491	Wood Working III	2
382	Furniture Construction & Design	2
482	Cabinet Making	2

Electives: 366, 466

POWER MECHANICS

140	Engine Theory I	2
141	Engine Laboratory I	2
142	Power Transfer Theory I	2
143	Power Transfer Laboratory I	2
144	Carburetion & Ignition Theory I	2
145	Carburetion & Ignition Lab. I	2
146	Hydraulic and Suspension Systems Theory I	2
147	Hydraulic and Suspension Systems Laboratory I	2

Electives: 240, 241, 242, 243, 245, 345

SUBJECT SPECIALIZATION FOR GRADES 1-9 24 Sem. Hrs.

*101	Basic Electricity I	2
*120	Drafting I	2
*160	Hand Woodworking	2
*165	Cold Metal Processing	2

*180	Materials and Processes of Industry	2
*181	General Shop I	2
*281	General Shop II	2
*286	Crafts	2
*380	Philosophy of Industrial Arts	2
*381	Organization & Administration of Industrial Arts	2
*386	Industrial Arts for the Elementary Teacher	2
*481	General Shop III	2

GENERAL SHOP CERTIFICATION 32 Sem. Hrs.

101	Electricity I	2
102	Electricity II	2
120	Drafting I	2
160	Hand Woodworking	2
165	Cold Metal Processing	2
180	Materials and Processes of Industry	2
181	General Shop I	2
220	Drafting II	2
260	Machine Woodworking	2
265	Hot Metal Processing	2
*281	General Shop II	2
*380	Philosophy of Industrial Arts	2
*381	Organization & Administration of Industrial Arts	2
385	School Shop Maintenance I	2
*481	General Shop III	2

Students pursuing a General Shop Certification as a first field will be required to qualify in a second teaching field.

The General Shop Certification will qualify for a second teaching field for those having a first teaching field in another discipline.

Students who choose the General Shop Certification may qualify to teach unit shops by completing six additional semester hours in the respective areas of specialization by permission only.

JOURNALISM (Teaching Field, Grades 7-12) 24 Sem. Hrs.

*240	Reporting I	3
270	Communications in Society	2
280	History of American Journalism	3
*312	Publication Problems	3
320	Principles of Advertising	3
334	News Photography	2
*340	Journalism Practice	2
*343	Copy Editing & Make-up	3

Electives from the following: 3

271	The Newspaper & Society	3
330	Advanced Reporting	3
341	Journalism Practice	2

Students taking a teaching field in Journalism must complete another field for grades 7-12.

LANGUAGE ARTS (See English)
Curriculum for Comprehensive Field 7-12
Required Courses 57 Sem. Hrs

English	*104	Written English	3
English	*108	Advanced Written English	3
English	*250	Survey of English Literature	3
English	*260	Survey of American Literature	3
English	*321	Study of the English Language	3
English	431	Methods and Materials in Teaching English	2
Speech	105	Voice and Diction	3
Speech	151	Play Production	2
Speech	*210	Advanced Spoken English	3
Speech	221	Oral Interpretation	2
Speech	243	Debate	2
Speech	245	Oratory	1
Speech	401	Extemporaneous Speaking	1
Speech	336	Play Directing	2
Speech	430	Speech Correction	3
Journalism	*240	Reporting	3
Journalism	312	Publication Problems	3

Electives

300-400 level language and composition courses	3
300-400 level literature courses	12

LANGUAGE ARTS—Curriculum for Subject Specialization 1-9

Required Courses 24 Sem. Hrs

*104	Written English	3
*108	Advanced Written English	3
*250	Survey of English Literature	3
*260	Survey of American Literature	3
*321	Study of the English Language	3

Electives

300-400 level language and composition course	3
300-400 level literature courses	6

LIBRARIAN (School Librarian)

Curriculum for Grades 7-12 or Specialization 1-9 21 Sem. Hrs

Lib. Sci.	*200	Reference and Bibliography	3
	*210	Library Materials	3
	*302	Catalogue and Classification	3
	*304	Organization and Administration	3
	*400	Library Practice	3
English	*207	Children's Literature	3
Education	424	Audio Visual Aids	3

A student selecting School Librarian as a secondary specialization shal complete another specialization for grades 7-12.

MATHEMATICS (Comprehensive)** 32 Sem. Hrs

*116	Calculus I	4

*215	Calculus II	4
216	Calculus III	4
*361	Abstract Algebra	3
372	Modern Geometry	3
431	Special Methods	2

Electives (must include at least six semester hours of the following: 200, 335, 342, 391)	12

MATHEMATICS (Teaching Field, grades 7-12) 18 Sem. Hrs.

*116	Calculus I	4
*215	Calculus II	4
216	Calculus III	4
*361	Abstract Algebra	3

Electives from the following courses	3

200	Mathematical Logic	3
335	Probability and Statistics	3
342	Numerical Analysis	3
362	Linear Algebra	3
372	Modern Geometry	3
373	Projective Geometry	3
391	Introduction to Analysis	3
393	Intro. to Found. of Mathematics	3
400	Seminar	1-3
401	Differential Equations	3
411	Advanced Calculus	3
413	Introduction to Complex Variables	3

MATHEMATICS—Curriculum for Subject Specialization 1-9

Required Courses 13 Sem. Hrs.

*115	Intermediate Mathematics II	4
*210	Mathematics for Elementary Teachers	3
361	Abstract Algebra	3
372	Modern Geometry	3

It is expected that students will present a minimum of four units of secondary school mathematics including two units of algebra, one unit of integrated geometry (or equivalent), and a fourth unit requiring algebra and geometry as prerequisites. Students who present less than this expected preparation may be required to complete appropriate courses from among Math 111, 112, 115, in addition to the above requirements.

**Students should consult with their advisor concerning credit for prerequisites and Special Examination For Course Credit.

MUSIC

Curriculum for Comprehensive Teaching Field (1-12)

Required Courses 59 Sem. Hrs.

Music Theory:			18
*109, 110	First Year Theory	8	
*209, 210	Second Year Theory	8	
309	Orchestration	2	

Music History and Appreciation:			9
*206 Music Appreciation for Majors		3	
*313, 314 History		6	
Conducting:			2
*245 Fundamentals of Conducting		2	
Note: An additional 2 hours of advanced instrumental and choral conducting is included in Music 429, Instrumental Methods and Music 430, Choral Methods.			
Participation:			4
*****Band, Chorus, or small ensembles		4	
Applied Music:			18
Applied Major:		7	
*141, I-VII Voice or	7		
*177-203, I—VII Instrumental (Brass Woodwind, Percussion, or Strings) or			
*107, I-VII, Piano or			
*103, I-VII, Organ			
Senior Recital: (See Fairmont State College Bulletin Supplement, "Applied Music Requirements.")		1	
440 Senior Recital	1		
Instrumental Classes		4	
*211 String Class	1		
*213 Brass Class	1		
*215 Woodwind Class	1		
*217 Percussion Class	1		
**170 Lab. Band-Orchestra	NC		
Applied Major:			
For the Vocal Major:		6	
Elective: (On advice of Instructor) Instrumental Class II, or			
139 Voice Class	1		
***Piano:			
*105, I-II Piano Class	2		
107, I-II-III Piano or	2		
****320 Techniques of Keyboard Accompanying (Piano Proficiency)	1		
For the Instrumental Major:		6	
Instrumental Class II (On advice of Instructor)	1		
***Piano:			
*105, I-II Piano Class	2		
107, I-II Piano (Piano Proficiency)	2		

Voice:			
139 Voice Class	1		
For the Organ or Piano Major		6	
Elective: (On advice of Instructor)			
Instrumental Class II, or			
103 Organ (for Piano Major), or			
320 Techniques of Piano Accompanying	1		
Instrumental or Vocal Applied Minor:	4		
141, 177-203, I-IV			
Voice:	1		
139 Voice Class			
Music Education:			8
*429 Instrumental Methods and Conducting		3	
*430 Choral Methods and Conducting		3	
431 Methods and Materials in Teaching Music		2	

Curriculum for Subject Specialization in Grades 1-9

Required Courses		27 Sem. Hrs.
General Education Requirements		9
*206 Music Appreciation	3	
*231 Elementary Music Methods I	3	
*232 Elementary Music Methods II	3	
Theory:		6
*109E Beginning Theory	2	
*109 Theory (First Semester)	4	
Applied Music:		6
*139 Voice Class and		
141 Voice or		
141 I-II Voice	2	
*105 I, II Piano Class	2	
***107 I, II Piano	2	
Participation:		4
*****Band or Chorus, and small ensembles.		
Conducting:		2
*245 Fundamentals of Conducting	2	

Applied Music Levels: Upon entering this institution, all music majors will be assigned an applied level of performance by the faculty jury in either vocal or instrumental. Each student will be required to complete at least one applied level each year for a total of 4 levels for graduation. It is desirable that music majors complete level 7 in their major applied area. See Fairmont State College Bulletin Supplement, "Applied Music Requirements."

**Laboratory Band-Orchestra is held once each week for non-credit (NC). All persons taking Music 211, 212, 213, 215, and 217 are required to participate.

***Piano is required of all music students. At the completion of the required number of hours (4), each student must pass the piano proficiency examination. If failed, the student must continue to take piano until the piano proficiency examination is passed. This requirement is necessary for a degree in music. A student who so desires, may take the piano examination after completing one or more hours of piano. If successful, he is excused from the remaining hours which must be added to music electives in an applied area.

****Music 320, Keyboard Accompanying, may be substituted for applied piano.

*****All students majoring or minoring in music must participate in at least one campus major musical performing group during each semester of college attendance. After completion of the required number of participation credits, students will register in the performing groups on a credit or audit basis.

PHYSICS, General-Earth Science (Comprehensive) 46 Sem. Hrs.

Chemistry	*101	General Chemistry	4
Chemistry	*102	General Chemistry	4
Physics	*101	Introduction to Physics	4
Physics	*102	Introduction to Physics	4
Physics	201	Demonstrations in Physics	3
Physics	*310	Electricity and Electronics	4
Biology	101	Introduction to Biology	3
Biology	102	Introduction to Biology	3
Geology	*201	Physical Geology	3
Physics	*202	Astronomy	3
Electives		Minimum of 5 hours in Physics	9
		Chemistry 0-4 hrs.	
		Physics 5-9 hrs.	
Science	431	Methods and Materials in Teaching Science	2

PHYSICS (Single Field 7-12) 38 Sem. Hrs.

Same as required in Physics above but omit Geology 201, Physics 202, and Science 431.

SOCIAL STUDIES (Comprehensive) 59 Sem. Hrs.

History	*107, 108	United States History	6
History	*111, 112	History of Civilization	6
History	*302	West Virginia History	3
History	*460	Guided Historical Study	3
History	*461	Guided Historical Study	3
History		Elective	3
Sociology	*110	Introductory Sociology	3
Sociology	200	Social Problems	3
Pol. Sci.	*103	American Government	3
Pol. Sci.		Elective, 200 or above	3
Geography	*210	World Regional Geography	3
Geography		Elective	3
Economics	*201, 202	Econ. Principles & Problems	6

History	431	Meth. & Mat. in Teaching Soc. Stud.	2
		History & Soc. Stud. electives	9

Six hours of history and three to be chosen from economics, geography, history, philosophy, political science, psychology, or sociology. This requirement may be waived if the student (1) Takes twelve hours of a foreign language

or

(2) Completes a second teaching field, grades 7-12

OCIAL STUDIES Subject Specialization 1-9 36 Sem. Hrs.

History	*107, 108	United States History	6
History	*111, 112	History of Civilization	6
History	*302	West Virginia History	3
History	319	Recent America	3
History	341	Europe from 1919 to Present	3
History		Elective, 300 or above	3
Geography	*210	World Regional Geography	3
Geography		Elective	3
Pol. Sci.	*103	American Government	3
Pol. Sci.		Elective 200 or above	3

PEECH

urriculum for Single Field, Grades 7-12 30 Sem. Hrs.

Speech Science			
*105	Voice and Diction		3
Public Address			
*210	Advanced Spoken English		3
*237	Effective Speaking		2
*243	Argumentation and Debate		2
245	Oratory		1
Oral Interpretation			
*221	Oral Interpretation		2
Speech Correction and Audiology			
430	Speech Correction		3
Dramatics			
*151	Play Production		2
*251	Acting		2
*336	Play Directing		2
*336L	Play Directing Lab		1
Radio and Television			
*330	Fundamentals of Radio and TV		2
Electives from classes listed below			5
222	Advanced Oral Interpretation	2	
244	Intercollegiate Debating	1-4	
401	Extemporaneous Speaking	1	

334	Radio Production	2
334L	Radio Production Lab	1
101	Fundamentals of Speech	3
120	Theatre Appreciation	2
152-452	Theatre Workshop	1-2
252	Acting Workshop	1-4
301-301L	Make-up	1-2
321	Summer Theatre: Rehearsal and Performance	1-3
322	Summer Theatre: Production and Management	1-3
331	Children's Drama	2
331L	Children's Drama Lab.	1
440	Speech and Drama Seminar	1

Curriculum for Subject Specialization 1-9.

Required	Courses	18 Sem. Hrs.
*105	Voice and Diction	3
*210	Advanced Spoken English	3
*237	Effective Speaking	3
331	Children's Drama	2
331L	Children's Drama Lab.	1
336	Play Directing	2
336L	Play Directing Lab	1
430	Speech Correction	3

331 and 331L or 336 and 336L must be completed before admission to the Block.

SPECIAL CURRICULA

PRE-PROFESSIONAL CURRICULA

Pre-professional work is offered in the following fields:

Dentistry
Law
Medicine
Medical Technology
Pharmacy

Since the majority of students doing such work will later enter the professional schools at West Virginia University, the courses have been prepared with the idea of meeting the requirements laid down by University authorities for their own pre-professional students. Students expecting to enroll in other professional schools should procure a catalog from the school they expect to enter with advanced standing so that the course taken here will meet the requirements they need to meet. The pre-professional field advisor will assist students in making all necessary adjustments.

PRE-MEDICAL AND PRE-DENTAL CURRICULUM

Students planning to study medicine or dentistry should complete basic science courses as well as a broad range of general education courses with an average of B or better. The entrance requirements of professional schools throughout the nation vary considerably. A student should consult carefully the catalog of the professional school which he plans to attend. At West Virginia University, the School of Medicine requires a minimum of 90 semester hours of undergraduate work exclusive of Physical Education for admission. The School of Dentistry requires a minimum of 60 semester hours of undergraduate work for admission.

The following courses will meet the minimum requirements for admission to the study of medicine or dentistry at West Virginia University.

Biol.	101-102	Introduction to Biology	6
Chem.	105-106	Chemical Principles	10
Chem.	305-306	Organic Chemistry	8-10
Eng.	104	Written English	3
Eng.	108	Advanced Written English	3
Phys.	101-102	Introduction to Physics	8
Social or Behavioral Sciences			6

PRE-PHARMACY CURRICULUM

National requirements for the study of pharmacy require five years of study beyond high school. The curriculum requires the completion of two years of pre-pharmacy and three years of study and training in a professional school of pharmacy. Prospective pharmacy students should plan their programs in such a manner as to insure meeting requirements of the particular professional school of pharmacy to which they wish to transfer. The following two-year preparatory program is suggested.

Course	First Year		Second Year	
	Hrs.	Hrs.	Hrs.	Hrs.
Biology 101, 102	3	3		
Chemistry 105, 106; 305, 306	5	5	4	4
Economics 201, 202			3	3
English 104, 108	3	3		
Math 112, 115*	3	3		

Physics 101, 102			4	4
Electives from Arts and Humanities	3	3	3	3
Electives from Social Sciences			3	3

*For students not required to take Math 112 and/or 115, Math 116 and 215 are strongly recommended.

PRE-MEDICAL TECHNOLOGY CURRICULUM

Medical technology is a four-year undergraduate program. The first two years may be taken at Fairmont State College. The entrance requirements of schools of medical technology throughout the nation vary considerably. A student should consult carefully the catalog of the school which he plans to attend. Students who have completed 64 semester hours including the following courses will be eligible for admission to the third year of the medical technology program at West Virginia University.

English	104, 108	Written English	6
Biology	101, 102	Introduction to Biology	6
Chemistry	105, 106	Chemical Principles	10
Chemistry	205	Analytical Chemistry	4
Chemistry	305, 306	Organic Chemistry	8
Physics	101, 102	Introduction to Physics	8
Mathematics	112	Intermediate Mathematics I or higher	3

Physical Education ....4 hours for women, 2 hours for men.

Courses such as microbiology, biochemistry, and anatomy should not be taken prior to enrollment in the professional school.

PRE-LAW CURRICULUM

Fairmont State College offers no distinct pre-law curriculum. Law schools generally admit applicants with a bachelor's degree in any field. Students who plan to attend law school usually major in history, political science, or business administration.

TWO-YEAR CURRICULA

Fairmont State College offers several special curricula each of which require completion of 64-72 semester hours with a **quality point average of 2.0 or better.** These curricula are now available in the following areas:

Accountancy
Clerical
Nursing Education
Secretarial
Technical Education

The purpose of these curricula is to provide desirable vocational training. These curricula are complete within themselves. The quality of the instruction offered will be identical with that in the four-year curricula.

Fairmont State College is authorized by the State Board of Regents to issue the certificate of Associate in Arts or Associate in Science upon the successful completion of any of these special two-year curricula. Application for the certificate must be made while the student is enrolled at Fairmont State College. The student may choose not to complete all the requirements of a special curriculum and, after an evaluation, may select the program leading toward a baccalaureate degree instead. **A 2.0 average for all courses attempted and for those in the area of specialization is required.**

ACCOUNTING CURRICULUM 64 Sem. Hrs.

Required Courses

Bus.	141	Business Mathematics	3
Bus.	201, 202	Principles of Accounting	6
Bus.	301, 302	Advanced Accounting	6
Bus.	306	Business Law	3
Bus.	406, 407	Income Tax, Indiv. & Corporate	6
Econ.	201, 202	Principles and Problems	6
Eng.	104, 108	Written English	6
Sec. St.	101, 102, 211	Begin. Typewriting and Intermediate Typewriting or Advanced Typewriting	4
Psy.	103	General Psychology	3
Speech	101 or	Fundamentals of Speech	3
	107	Speech Improvement	2
Electives			18-19

ECRETARIAL CURRICULUM 64 Sem. Hrs.

Two Years

Required Courses

Bus.	102	Introduction to Business	3
Bus.	141	Business Mathematics	3
Eng.	104, 108	Written English	6
Sec. St.	101, 102	Begin. & Intermed. Typewriting	4
Sec. St.	204	Secretarial Accounting	3
Sec. St.	201, 202	Begin. Shorthand	8
Sec. St.	211	Advanced Typewriting	2
Sec. St.	251	Business Correspondence	2
Sec. St.	301, 302	Adv. Shorthand & Transcript	8
Sec. St.	303	Principles & Practices of Filing	2
Sec. St.	311	Office Machines	2
Sec. St.	312	Card Punching	2
Sec. St.	314	Dictation & Transcription	2
Sec. St.	351	Sec. Office Practice	2
Sec. St.	351L	Sec. Office Practice Lab	1
Psy.	103	General Psychology	3
Home Ec.	103	Principles of Clothing Selection	2
Speech	101 or	Fundamentals of Speech	3
	107	Speech Improvement	2
Electives			6-7

CLERICAL CURRICULUM 64 Sem. Hrs.

Two Years

Required Courses

Bus.	102	Introduction to Business	3
Bus.	141	Business Mathematics	3

Bus.	201, 202	Principles of Accounting	6
Eng.	104, 108	Written English	6
Sec. St.	101, 102	Begin. & Intermed. Typewriting	4
Sec. St.	211	Advanced Typewriting	2
Sec. St.	251	Business Correspondence	2
Sec. St.	303	Principles & Practices of Filing	2
Sec. St.	311	Office Machines	2
Sec. St.	312	Card Punching	2
Sec. St.	351	Sec. Office Practice	2
Sec. St.	351L	Sec. Office Practice Lab.	1
Psy.	103	General Psychology	3
Home Ec.	103	Principles of Clothing Selection	2
Speech	101 or	Fundamentals of Speech	3
	107	Speech Improvement	2
Electives			21-23

NURSING EDUCATION

The program is two academic years and one summer session in length. A 2.0 overall quality point average and a 2.0 quality point average in nursing is required to continue in the program. Student spaces in the program are limited in number, and admission is being restricted to students whose chances of success appear to be better than average. Some students choose to complete some general college work before applying for nursing. All applications must be made at least six months in advance. Students admitted to the program must carry at least 12 hours each semester regardless of the amount of work completed in advance.

The purpose of the program is the development of the individual as a person, a citizen and as a beginning practitioner of nursing at the bedside level. A balance of general education and specialized education makes up the curriculum. The graduates are eligible to take the West Virginia State Board examination for licensure as a registered nurse.

Community agencies are used for selected learning experiences. Those included are hospitals, clinics, schools, homes for the aged and the state mental institution.

NURSING EDUCATION CURRICULUM 72 Sem. Hrs.

First Year

First Semester	Sem. Hrs.	Second Semester	Sem. Hrs.
Eng. 104, Written English	3	Eng. 108, Written English	3
Phy. Sci. 201, Gen. Phy. Sci.	3	Phy. Sci. 202, Gen. Phy. Sci.	3
Nsg. 101, Fundamentals of Nsg.	5	Psych. 103, General Psychology	3
Home Ec. 110, Nutrition	2	Nsg. 103, Medical-Surgical	8
Anatomy	3		
Total Hours	16	Total Hours	17

Summer Session

Nsg. 200, Psychiatric Nursing 6 hrs.

Second Year

First Semester	Sem. Hrs.	Second Semester	Sem. Hrs.
Biol. 224, Microbiology	3	Nsg. 205, Maternal and Child	8

Nsg. 202, Medical-Surgical	8	Nsg. 204, Trends in Nursing	2
Speech 101, Fund. of Speech	3	Pol. Sci. 103, National Gov't	3
Soc. 110, Introductory Sociology	3	Elective	3
Total Hours	17	Total Hours	16

THE TWO-YEAR TECHNICAL EDUCATION CURRICULUM

The Two-Year Technical Education Curriculum culminates in a Certificate of Associate of Science. The two-year program permits those who desire to prepare themselves in a short period of time to accept industrial responsibilities in the occupational area between the craftsman and the engineer at the end of the area closest to the craftsman. Industry needs trained personnel to perform skillful and demanding processes, to supervise the work of others, and to assist technicians and engineers. If he chooses, the student may complete the work necessary for the baccalaureate degree without appreciable loss of credit.

The requirements for the options in construction, drafting, electrical-electronic, mechanical, mechanical power are listed below. The requirements for the printing technology option are listed separately at the end of this section.

General Education 31 Sem. Hrs.

Eng.	104, 108	Written English	6
I.E.	106	Mathematics for the Technician I	3
I.E.	107	Mathematics for the Technician II	3
Phy.	101-102	Introduction to Physics	8
Econ.	200	Economics	3
Psych.	103	General Psychology	3
I.E.	191	Personnel Prob. & Labor Relations	2
Bus.	227	Industrial Organization	3

Foundation Courses 33 Sem. Hrs.

101-102	Electricity I & II	2-2
110	Basic Electronics I & II	2-2
120-220	Drafting I & II	2-2
170	Statics	3
180	Materials & Processes of Industry	2
190	Industrial Orientation	0
270	Strength of Materials	3
271	Strength of Materials Laboratory	1
492	Work Study Seminar	4
493	Work Experience Laboratory	8

I.E. 492 and 493 may be waived for students who are employed full or part-time if such employment is approved by the Director of Technical Education.

Eight semester hours of credit in any one of the following groups, in addition to the foundation courses, will constitute a major unit of work in the respective area of specialization.

Construction Technology Option 8 Sem. Hrs.

122-222	Architectural Drafting I & II	2-2
160	Hand Woodworking	2
260	Machine Woodworking	2

366-466	Construction Theory & Lab. I & II	2-2
372	Surveying	2
375	Plumbing & Sanitation	2
376	Heating & Air Conditioning	2
392	Blueprint Reading	2-3

Drafting Technology Option 8 Sem. Hrs.

122-222	Architectural Drafting I & II	2-2
422	Architectural Drafting III	2
123	Machine Design	2
221	Graphic Illustration	2
223	Jigs & Fixtures	2
320-420	Drafting Room Techniques	2-3
321	Structural Drafting	2
322	Architectural Design	2

Electrical-Electronic Technology Option 8 Sem. Hrs.

201-202	Elec. Measurements Lab. I & II	2-2
204	Electrical Machinery DC	2
205	Electrical Machinery AC	2
315	Industrial Electronics & Controls	2
316	Advanced Electronics I	2
317	Advanced Electronics II	2

Mechanical Technology Option 8 Sem. Hrs.

123	Machine Design	2
161-261	Gas Welding I & II	2-2
162-262	Arc Welding I & II	2-2
167-267	Machine Shop I & II	2-2
204	Electrical Machinery DC	2
205	Electrical Machinery AC	2
223	Jigs & Fixtures	2
245	Hydraulics	2
345	Pneumatics	2
370-470	Manufacturing Processes I & II	2-2

Power Technology Option (Mechanical) 8 Sem. Hrs.

140	Engine Theory I	2
141	Engine Laboratory I	2
142	Power Transfer Theory I	2
143	Power Transfer Laboratory I	2
144	Carburetion and Ignition Theory I	2
145	Carburetion and Ignition Lab I	2
146	Hyd. & Suspension Sys. Theory I	2
147	Hydraulic & Suspension Sys. Lab	2

REQUIRED COURSES AND SUGGESTED SCHEDULE FOR THE TWO-YEAR ASSOCIATE DEGREE IN PRINTING TECHNOLOGY

FIRST YEAR

Eng. 104, Written Eng.	3	Eng. 108, Written Eng.	3
Phy. Sec. 201, General Phy. Sci.	3	Phy. Sc. 202, General Phy. Sci.	3
I.E. 180, Materials & Processes	2	I.E. 120, Drafting I	2

I.E. 191, Personnel Problems & Labor Rel.	2	I.E. 220, Drafting II	2
I.E. 130, Printing Processes I	2	I.E. 134, Graphic Layout & Design I	2
I.E. 131, Printing Lab. I	2	I.E. 234, Graphic Layout & Design II	2
Sec. St. 101 or 102 Typing	2	I.E. 136, Printing Composition	2
	16		16

SECOND YEAR

Soc. 110, Intro. Sociology	3	Psych. 103, General Psychology	3
I.E. 132, Typography I	2	I.E. 333, Printing Techniques I	2
I.E. 232, Typography II	2	I.E. 433, Printing Techniques II	2
I.E. 133, Offset Printing I	2	I.E. 435, Printing Mech. & Press Design	4
I.E. 233, Offset Printing II	2	Journ. 240	3
I.E. 235, Printing Estimating	3	I.E. 335, Printing Plant Mgmt.	3
Bus. 227, Industrial Organization	3		
	17		17
I.E. 492, Work Study Seminar	4	I.E. 493, Work Experience Lab.	8

COURSES OF INSTRUCTION

ART

(Division of Fine Arts)

140. **Art Structure and Applied Design** Three hours

A basic course in the principles of design applicable to various media and techniques.

141. **Art Structure and Applied Design** Three hours

A continuation of Art 140.

142. **Drawing** Two hours

The development of technical skills in the use of various media for a fundamental knowledge stressing observation, memory training, and composition.

241. **Drawing from Life** Two hours

Drawing from the posed model accompanied by analytical studies of anatomy.

242. **Drawing and Painting from Life** Three hours

Focuses on sustained individual development. PR: Art 142-241.

255. **History and Appreciation of Art** Two hours

Considers the social and historical backgrounds and modern developments in various art fields.

261. **Painting in Oil** Two-Three hours

A course designed for those who have had no previous work in painting in oil. PR: Art 142.

262. **Painting in Oil** Two-Three hours

Continuation of Art 261.

278. **Ancient and Medieval Art** Three hours

History of Art from Prehistoric times to 1400 A.D. An analysis of the philosophical, religious, and political beliefs and conditions that produced various artistic expressions. PR: Art 255.

283. **Modeling and Sculpture** Two-Three hours

Introductory course using clay modeling, plaster, and metal sculpture.

284. **Modeling and Sculpture** Two-Three hours

Continuation of Art 283.

341. **Graphics** Two-Three hours

A study of the methods of reproducing drawings beyond the exploratory level: lithography, etching, woodcutting, and others. PR: Art 140, 142.

352. **Kindergarten-Primary Art** Two hours

Experiences and theory designed to prepare students to teach art on the kindergarten-primary level.

353. **Elementary Art Education I** Two hours

Directed experiences in two and three dimensional media such as, drawing, painting, poster, sculpture, and design using various media suitable for children.

354. **Elementary Art Education II** Two hours

The theories, philosophy, and methods of teaching art education. Experiences supplemented—with references to the needs of students in elementary teaching.

361. **Painting in Oil** Two-Three hours

Still life, landscape, and figure painting in oil.

362. **Painting in Oil** Two-Three hours

Continuation of Art 361.

363. **Painting in Watercolor** Two-Three hours

Composition and techniques of painting in watercolor. PR: 142.

364. **Painting in Watercolor** Two-Three hours

Continuation of 363.

377. **Italian and Northern Renaissance Art** Three hours

History of painting, sculpture, architecture, and the minor arts in Italy, the Netherlands, Germany, Spain, France, and England from circa 1400 A.D. to the 19th century. PR: Art 255.

378. **Nineteenth Century and Contemporary Art** Three hours

History of art from the 19th century to the present with an analysis of art movements. PR. Art 255.

383. **Ceramics** Two-Three hours

Ceramic design and techniques, such as slab, coil, wheel, etc. for beginners.

384. **Ceramics** Two-Three hours

Continuation of Art 383.

431. **Methods and Materials in Teaching Art** Two hours

Planning and application of problems for junior and senior high schools. Coordinated with the Education Department and the public schools. Designed for students who are practice teaching or for teachers in service.

461. **Advanced Painting in Oil** Two-Three hours

462. **Advanced Painting in Oil** Two-Three hours

Continuation of 461.

463. **Studio in Painting** Two-Three hour

The student is permitted to select the medium and then experi mentally exploit all the technical and creative possibilities that it per mits.

464. **Studio in Ceramics** Two-Three hour

The student is permitted to select the medium and then experi mentally exploit all the technical and creative possibilities that it per mits.

465. **Studio in Sculpture** Two-Three hour

The student is permitted to select the medium and then experi mentally exploit all the technical and creative possibilities that it per mits.

BIOLOGY

(Division of Science)

101. **Introduction to Biology** Three hour

Two lectures and one two-hour laboratory period per week. Thi course together with Biology 102 is designed to familiarize freshme with principles of plant and animal life. This is also a foundatio course for students pursuing further work in biology.

102. **Introduction to Biology** Three hour

Continuation of 101.

200. **Ornithology** Two hour

Field and laboratory studies on the structure, identification, migra tion, protection, nesting, and food habits of birds. PR: 101, 102.

215. **Bio-Photography** Two hour

A course designed to familiarize students with the fundamentals o photography and its many applications in the field of biology, includin photomicrography. Open to students that have an interest in bot photography and biology. PR: 101, 102.

220. **Invertebrate Zoology** Four hour

Two lectures and two two-hour laboratories each week. Facts an principles fundamental to an understanding of the invertebrate animal will be presented. This course is designed for majors in zoology o biology and for premedical students. PR: 101, 102.

221. **Vertebrate Zoology** Four hour

Two lectures and two two-hour laboratories each week. Facts an principles fundamental to an understanding of vertebrate animals will be presented. PR: 101, 102.

224. **Microbiology** Three hours

Two lectures and one two-hour laboratory each week. The techniques of isolating and identifying bacteria are considered. Attention is given to the several types of disease-producing microorganisms and methods of control. This is a general course designed to give the student an understanding of the importance of microorganisms in the life of man. PR: 101, 102.

230. **General Botany** Four hours

Two lectures and two two-hour laboratories each week. The first part of the semester is given to the study of the structures and functioning of the seed plant. The second part includes a survey of both lower and higher forms of plants with emphasis on reproductive structures. Basic to all other botany courses. PR: 101, 102.

242. **Bio-Ecology** Three hours

This course constitutes a study of the relationship of organisms to their environment. The edaphic, climatic, and biotic factors are given consideration. Human ecology and conservation are presented where pertinent. PR: 101, 102.

315. **Field Zoology** Three hours

Primarily for those who teach or intend to teach biology. This course aims to familiarize students with the animal life of the State in its natural surroundings and includes the collection, identification, and study of habits of the various forms found in this region. PR: 101, 102.

320. **Fresh-water Biology** Three hours

Two lectures and one two-hour laboratory each week, with time arranged in the field. A study of the physical, chemical, and biological aspects of the various fresh-water habitats. Emphasis is on the ecology of the various communities, with development of techniques in field ecology which may apply. PR: 101, 102.

330. **Field Botany** Three hours

Designed primarily for those students that plan to teach. The various groups of plants are considered in the field and laboratory with emphasis on the seed plants. Some attention is given to ecology. PR: 101, 102 or consent of instructor.

340. **The Plant Kingdom** Three hours

Two lectures and one two-hour laboratory each week. This course deals with the structural characteristics of the great plant groups through the Bryophytes. Their organization, development, and reproductive structures are considered in detail. Teaching materials are compiled and techniques are developed. There are field trips on occasion. PR: 230.

341. **The Plant Kingdom** Three hour

Two lectures and one two-hour laboratory each week. Continuatio of the Plant Kingdom, 340, but may be taken as an independent uni This course covers the vascular plants including the ferns, gymnosperms, and angiosperms. PR: 230.

342. **Mycology** Three hour

This course constitutes a study of the development, morpholog and taxonomy of the fungi and familiarizes the student with the relation of fungi to human affairs. Two lectures and one two-hour laboratory weekly. PR: 230.

350. **Comparative Anatomy of Vertebrates** Four hour

Two lectures and two two-hour laboratories each week. The anatomical similarities and differences among representative vertebrat animals will be studied comprehensively in both lecture and laboratory Attention will be given to evolutionary structural advancements. PR 101, 102.

360. **Biochemistry** Three hour

A study of the general principles of biochemistry including th metabolism of carbohydrates, proteins, and fats. Biosynthetic pathways enzymatic mechanisms, biological oxidation, and other aspects of th subject are considered. PR: Chemistry 101 and 102 or higher, Biolog 230 and 221. (Chemistry majors & minors by consent)

380. **Introduction to Genetics** Three hour

Principles of inheritance; chemical nature, structure, and functio of genetic materials. Implications to population and human genetics PR: 101, 102.

381. **Principles of Evolution** Two hour

Introductory discussions on the principles of organic evolution physical, chemical, and biological phenomena related to the understanding of the long term changing processes of life. PR: 101, 102.

411. **Histology** Four hour

Two lectures and two two-hour laboratory periods each week. A analysis of the arrangement of fundamental animal tissues to differentiate between cell types and study their relationships to each other i the functioning organism. Also, this course will include histologica technique to give the student an introduction to the preparation o animal tissues for study. PR: 221 or 350.

418. **Plant Pathology** Three hour

This course constitutes a study of the casual agents of plant diseases and their morphological and physiological effects upon the host Consideration is also given to the control measures involved. Tw lectures and one two-hour laboratory weekly. PR: 230 and 342 or consent of instructor.

0. **Vertebrate Embryology** Four hours

Two lectures and two two-hour laboratories each week. This course offers an introductory study of the developments of the vertebrates. Emphasis of study is chiefly upon the frog, chick, and pig. PR: 221 or 350.

0. **Plant Anatomy** Three hours

Two lectures and one two-hour laboratory each week. Attention is given to the fundamental tissue organization of the higher plants. Development and differentiation of cell types and structures are considered as they relate to the functioning of the organism as a whole. PR. 230.

0. **Mammalian Physiology** Four hours

Two lectures and two two-hour laboratories each week. All of the physiological processes of plants are considered; ascent of sap, transpiration, food and biochemical synthesis, respiration, translocation, and growth and development. PR: 230.

0. **Seminar in Biology** One hour

All biology majors, either in their junior or senior year, will meet for one hour each week, for one semester. Each student will participate at least one time during the term by reviewing a pertinent topic of biological significance for his fellow participants. PR: 20 hours of biological courses and consent.

5. **Problems in Biological Sciences** Two hours

This course is designed for students who have interest in a specific problem in biology. It should not be used as a means of meeting requirements but rather as a research course that goes beyond the usual courses in developing the student. PR: 20 hours of biological courses and consent.

BUSINESS ADMINISTRATION

(Division of Commerce)

2. **Introduction to Business** Three hours

A survey of the various fields of business designed to acquaint the student with the basic principles, practices, and employment opportunities of each field. The student is provided, early in his college training, with the information of, and preparation for, the advanced courses in business to aid in choosing his major studies. For freshmen and sophomores only.

1. **Business Mathematics** Three hours

This course is designed to provide knowledge and skill in the computation of the practical problems of a business. The course content should form a sound basis for further study in the following areas: accounting, business finance, marketing, and related business subjects. Special emphasis will be directed to review of the basic arithmetic skills. Does not satisfy mathematics in General Requirements. Not open to students with credit for Math 110.

201. **Principles of Accounting** Three hours

Fundamental accounting theory and procedures: Organization of accounts, the accounting cycle, working papers and the preparation of financial and operating statements for individual proprietorships.

202. **Principles of Accounting** Three hours

The second semester of this course is a further study of the accounting process as applied to various business organizations. The two semesters of this course are designed to give students an adequate understanding in the recording, clarifying and summarizing of business transactions in order to proceed with the interpretation and analysis of accounting data. This course is a basic course for (1) accounting majors, (2) majors in other areas of business administration, and (3) those whose major interest is in economics, political science, law or other professional areas. PR: 201.

205. **Salesmanship** Three hours

A study of techniques appropriate to personal selling, both retail and contact. Students are given opportunities to construct and give sales presentations.

227. **Industrial Organization for Technical Education** Three hours

This course is a survey of the production division in modern industry. A study is made of principles and techniques of organization plans; production planning, routing, scheduling, dispatching and control; physical layouts for production; production standards, purchasing and inventory control; and staffing problems in production. Emphasis is placed on application of these principles in operating management. (For students earning Technical Education credits only).

301. **Advanced Accounting** Three hours

Interpretation and analysis of accounting theory and practice as applied to business organizations. Evaluation of assets, liabilities, and determination of income considering current tax practice and procedures. PR: Bus. 202.

302. **Advanced Accounting** Three hours

Continuation of 301. Accounting for partnerships, installment sales, consignments sales, branch accounting, consolidated statements, and estates and trusts. PR: Bus. 301.

304. **Marketing** Three hours

A study of those business activities that direct the flow of goods and services from producers to consumers. PR. Econ. 201, 202, or consent of instructor.

306. **Business Law** Three hours

A study of the nature and function of our legal system, courts and procedure including the law of contracts, agency and partnership.

07. **Business Law** Three hours

Continuation of 306. Substantive law of corporations, sales, secured transactions, commercial papers and the legal basis of property as applied to business situations. Business 307 will not satisfy three hours requirement in the teaching field in Business Education (Comprehensive). PR: Bus. 306.

08. **Personnel Management** Three hours

A study of the field of personnel management and industrial relations including its background, development, and modern practices.

09. **Industrial Organization & Management** Three hours

The emphasis in this course is on the modern approach to the field of management. The theoretical and practical approaches are presented along with analytical techniques that are applicable in the various management and production areas.

10. **Statistics** Three hours

The course includes computation of statistical measurements, methods of collecting and analyzing data, and the interpreting of results.

14. **Office Management** Two hours

The study of office management principles, analysis of office procedures, filing, transcribing, correspondence, reports, business machines and forms. The application of personnel management techniques to office management, office organization and office layouts.

20. **Principles of Advertising** Three hours

A survey course of the social, psychological, and some technical aspects of advertising. For Business and Journalism students.

27. **Accounting for Technical Education** Three hours

This course is designed to provide the student with (1) knowledge of tools and techniques for record keeping, reporting and interpretation of finances in industrial operation and (2) an understanding of cost problems involved in industrial production. A study is made of the principles of general accounting and methods of accounting for cost as used in industry. Emphasis is placed on development of skill in communication and understanding of problems between finance and production. (For students earning Technical Education credits only).

01. **Business Finance** Three hours

This course is intended to give the student a background in the field of financial management with emphasis on the areas of cost of capital, cost of external equity capital, cost of retained earnings, and similar concepts. It will also include material investment decisions and financial decisions. PR: Bus. 201, 202.

404. **Cost Accounting** Three hours

The relationship of cost accounting to the performance of management functions. The role of cost and profit data in management pursuit of company objectives is studied with four basic points of view in mind: (1) cost principle, (2) cost determination, (3) cost control and (4) cost analysis. PR: Bus. 201, 202.

405. **Auditing** Three hours

Duties and responsibilities of auditors, methods of verification of balance sheet and income and expense accounts with the applicable principles of internal control. Preparation of working papers, schedules, audit reports and certificates. PR: Bus. 201, 202, 301, 302.

406. **Federal Income Tax Accounting: Individual** Three hours

Preparation of income tax returns from the accounts of an individual; exclusions and inclusions for gross income, capital gains and losses, business expenses and other deductions.

407. **Federal Income Tax Accounting: Partnership and Corporation** Three hours

Continuation of 406, including preparation of income tax returns from accounts of partnerships, estates and trusts, and corporations. PR: Bus. 406. While previous accounting knowledge or experience will be helpful, no prior accounting training, knowledge, or experience is required.

408. **Introduction to Data Processing** Two hours

This is a familiarization course to provide the student with an understanding of the arithmetic computation of computer systems, input-output devices, storage, and techniques of computer programming. Students with credit in Business 429 or 430 should not register for this course.

410. **Investments** Three hours

A study of the principles of investment procedures and practices to follow in investing money.

429. **Business Analysis & Machine Accounting** Three hours

This course is primarily intended to teach the student Cobol, particularly as it applies to accounting and business analysis.

430. **Introduction to Fortran IV** Three hours

The course will provide instruction and supervised practice in computer programming with the FORTRAN IV compiler language, developing programming logic, and the actual writing, compiling, and execution of several programs.

431. **Materials and Methods in Teaching Business Education** Two hours

The latest methods, procedures, and techniques of teaching the skilled and nonskilled Business Education courses. Audio visual resources and equipment available for the teaching of these subjects will be studied. Students will participate and observe classroom teaching.

CHEMISTRY

(Division of Science)

101. **General Chemistry** Four hours

Three lectures and one three-hour laboratory. A survey of traditional and modern Chemistry with emphasis on concepts and the role of Chemistry in modern life. For students who do not plan to take any courses beyond Chemistry 102. This course has no pre-requisites.

102. **General Chemistry** Four hours

Three lectures and one three-hour laboratory. Continuation of Chemistry 101. PR: Chemistry 101.

103. **Modern Chemistry** Two hours

One lecture and one three-hour laboratory. This course is designed to provide background for those students who take Chemistry 101 and 102 and then decide to take additional chemistry. PR: 102. Can be taken concurrently with 205, or 305.

105. **Chemical Principles** Five hours

Three lectures and two three-hour laboratories. A study of inorganic and elementary physical chemistry based on modern chemical concepts, including Stoichiometry, Atomic and Molecular Structure, Periodic Properties, Phase Relations Solution Chemistry, Chemical Equilibrium and Kinetics, Electrochemistry, and Nuclear Chemistry. Qualitative Analysis and an introduction to computer programming is included in the laboratory. PR: One unit of high school chemistry.

106. **Chemical Principles** Five hours

Three lectures and two three-hour laboratories. Continuation of Chemistry 105. PR: Chemistry 105.

205. **Analytical Chemistry** Four hours

Two lectures and two three-hour laboratories. Classical methods of chemical analysis with emphasis on quantitative techniques. Also includes theory of acid-base, precipitation, and oxidation methods, Molecular Structure, and an introduction to electrochemistry. PR: Chemistry 106, or 103 concurrently.

206. **Instrumental Analysis** Four hours

Two lectures and two three-hour laboratories. Theory of and practical experience in the use of modern chemical instrumentation. Includes Spectroscopic, Chromatographic, Electrochemical, and Radiochemical methods. PR: Chemistry 205.

305. **Organic Chemistry** Four-five hours

Three lectures and one or two three-hour laboratories. A systematic study of organic chemistry with emphasis on kinetic behavior, structural relationships, and reaction mechanisms. Includes the study of all major classes of organic compounds and functional groups. Chemistry majors must take the 5 hour course; others may elect either the 4 or 5 hour course. PR. Chemistry 106, or 103 concurrently.

306. **Organic Chemistry** Four-five hours

Three lectures and one or two three-hour laboratories. Continuation of Chemistry 305. PR: Chemistry 305.

340. **Physical Approach to Modern Chemistry** Three hours

Three lectures. A study of elementary physical chemistry for teachers. This course is designed to provide the background necessary to teach the new high school courses in chemistry, physics, and physical science. Pre-or-Corequisite: Chemistry 305.

401. **Independent Study and Research** Two hours

Independent study and research under the direction of a faculty member. PR: Consent of Instructor.

402. **Independent Study and Research** Two hours

Independent study and research under the direction of a faculty member. PR: Consent of Instructor.

403. **Independent Study and Research** Two hours

Independent study and research under the direction of a faculty member. PR: Consent of Instructor.

405. **Physical Chemistry** Four hours

Three lectures and one three-hour laboratory. A rigorous study of Kinetics, Thermodynamics, Quantum Mechanics, Phase Equilibria, Electrochemistry, and Nuclear Chemistry. PR: Chemistry 206, Chemistry 305, Mathematics 215, and Physics 102.

406. **Physical Chemistry** Four hours

Three lectures and one three-hour laboratory. Continuation of Chemistry 405. PR: Chemistry 405.

440. **Intermediate Organic Chemistry** Three hours

Three lectures. An advanced study of organic reaction mechanisms. PR: Chemistry 306.

450. **Intermediate Inorganic Chemistry** Three hours

Three lectures. An advanced study of inorganic reactions, coordination compounds, and theories based on quantum mechanical principles. PR: Chemistry 405.

460. **Seminar** One hour

Each chemistry major should register for seminar one semester, preferably during his senior year. PR: Consent of Instructor.

ECONOMICS

(Division of Commerce)

200. **Economics** Three hours

The general education course in the field of economics. It is intended to introduce the student to the broad field of economics, including materials from both macro and micro-economics. Primarily, the course instructs the student in how our economic system operates. Some attention is given to other economic systems. Not open to students with credit for Economics 201. Replaces Economics 210.

201. **Economic Principles and Problems** Three hours
(For those meeting the requirement of six hours in Economics)

The course approaches the subject from the point of view of Macroeconomics covering the nature and method of economics and describing how the capitalistic system functions. Further study is made of the business cycle, fiscal policy, monetary policy, gross national product and similar concepts. Some time is devoted to the study of competing economic systems.

202. **Economic Principles and Problems** Three hours
(For those meeting the requirement of six hours in Economics)

This course is devoted to Microeconomics. It follows the analysis of the firm and the decisions made by the managers of the firm. It includes the analysis of demand and supply and price and output determination. It is also concerned with the important problems in the field of economics: Monopoly, agriculture, international trade, labor, economic development and similar problems. PR: 201.

301. **Intermediate Economic Analysis: Microeconomics** Three hours

Analysis of value and distribution theory, including the theory of consumer behavior, resource allocation, and the theory of the firm in both pure and imperfect competition. PR: 201, 202.

302. **Intermediate Economic Analysis: Macroeconomics** Three hours

Analysis of national income, employment, the price level, and economic growth. Public policy is discussed where relevant. PR: 201, 202.

303. **Money, Credit, and Banking** Three hours

An intensive study of money and credit principles with an analysis of their effects upon prices. History of banking. Banking principles and practices. PR: Economics 201, 202.

307. **Personal Finance** Three hours

A study of the problems a consumer must face in his or her day-to-day buying and living. It includes a brief survey of budgets, life insurance, investments, managing personal finances, buying services, and other problems of the consumer. Primarily intended as a general education course for non-majors.

405. **Economic Analysis** Three hours

This course is intended to provide the student with experience in economic analysis with a purpose to develop the power of decision-making. Material to be studied will include the areas of forecasting, economic measurements, capital management, and similar subjects. It is intended to provide the advanced student with a review of economics and with its application to business practice. PR: 18 hours of Economics and Business.

406. **Guided Economy Study** One-Three hours

Intensive reading, research, and study in current literature and documents in regard to a selected economic problem or group of problems. The field of study will be one in which the student has a special interest. All work will be done individually and the class will be conducted by conferences with each student. PR: 17 hours of Economics, Business, and Social Science courses.

EDUCATION

(Division of Education)

200. **Introduction to Education** Two hours

An analysis will be made of teaching as a career. A self-analysis will be made by the student to ascertain his probable fitness for the profession of teaching. It is a prerequisite for Education 302. Not open to students who have credit in six hours or more of professional education. Open to sophomores only.

302. **Human Growth and Development** Three hours

The aim of the course is to develop an interest in and an understanding of the child as a developing personality. Observations are required. PR: Education 200.

303. **Human Growth and Development** Three hours

This course is a study of the learning process and its relationship to the growth and development of the individual. PR: Education 302 and 74 or more credit hours earned.

310. **Kindergarten-Primary Organization & Curriculum** Three hours

Scope and sequence of kindergarten-primary organization and curriculum. Observations and first-hand experiences with children of this age required. PR: Education 200, 302, and 303.

395. **Survey of Guidance** Three hours

Principles of educational, vocational and personal guidance are examined. Guidance techniques are studied. PR: Education 302 and 303.

400. **Foundations of Education** Two hours

This course is designed to provide an opportunity for students to explore social, historical and philosophical theories and their implications for the interpretation of educational thought and procedure.

405. **Materials and General Elementary Methods** Two hours

PR: Education 302 and 303.

410. **Methods in Elementary Language Arts** Two hours

PR: Education 302 and 303.

415. **Methods of Elementary Social Studies** Two hours

PR: Education 302 and 303.

420. **Observation and Directed Teaching (Elementary)** Three-Seven hours

Student teaching must be on two levels. PR: Education 302, 303, 400, 405, 410, 415 and consent of the instructor.

424. **Audio-Visual Aids** Three hours

Techniques of effective use of graphic materials, unprojected pictures, objects, specimens, models, field journey, projected pictures, and audio aids. Required laboratory work includes operation of sound motion picture projectors, slide film, and opaque projectors, and phonotranscription audio equipment.

425. **Observation and Directed Teaching (Grades 1-12)** Three-Seven hours

For non-academic students seeking certification in grades 1-12. PR: Education 302, 303, 405, 442, 440 and consent of the instructor.

430. **Methods of Teaching Reading in the Secondary Schools** Two hours

PR: Education 302 and 303.

431. **Materials and Methods** Two hours

A course in special methods. Chairmen of departments of subject matter fields requiring unique and special methods may offer this course in cooperation with the Department of Education after securing approval. PR: Education 302, 303.

440. **Principles of Teaching in the Secondary Schools** Two hours

PR: Education 302 and 303.

442. **General Methods of Teaching in the Secondary Schools** Two hours

PR: Education 302 and 303.

450. **Observation and Directed Teaching (Secondary)** Three-Seven hours

PR: Education 302, 303, 400, 430, 440, 442 and consent of the instructor.

ENGLISH

(Division of Language and Literature)

104. **Written English** Three hours

Training in writing and speaking good English, including a short review of grammar, sentence structure, and punctuation; attention to the organization and development of thought, both in student compositions and in expository reading material; guidance in the use of reference books.

108. **Advanced Written English** Three hours

A continuation of English 104 which stresses rhetorical principles. One of the writing projects is a research paper. PR: 104.

English 108 is a prerequisite for all English courses numbered 200 or above.

207. **Children's Literature** Three hours

A survey of literature desirable for children; development of principles of selection and standards of evaluation; wide acquaintance with current books.

250. **Survey of English Literature** Three hours

A study of the mind and temper of the English people as seen in their literature from Chaucer through the early twentieth century.

260. **Survey of American Literature** Three hours

An historical study of the American mind as expressed in literature from colonial times to the present.

302. **Narrative and Descriptive Writing** Three hours

Practice in writing the simpler forms of fiction and personal narrative with descriptive detail.

306. **Advanced Technical Composition** Three hours

A course designed to provide practice in writing of expository articles and reports of a technical nature largely in the field of engineering.

311. **Literature of the Romantic Period** Three hours

A concentrated study of the works of such writers as Burns, Wordsworth, Coleridge, Byron, Shelley, and Keats.

312. **Literature of the Victorian Period** Three hours

A concentrated study of the works of such writers as Tennyson, Browning, Rossetti, Arnold, Swinburne, Mill, Ruskin, and Carlyle.

315. **Shakespeare** Three hours

A study of representative histories, comedies, and tragedies.

318. **Modern Drama** Three hours

The history of the British drama and the study of modern dramas—Continental, British, and American—from Isben to the present time.

319. **General Semantics** Three hours

Study in that branch of linguistics concerned with the nature, structure, and meaning of words and with the role of language in human behavior.

321. **Study of the English Language** Three hours

Word history and analysis; diction; descriptive grammar and constructions; fundamentals of composition. Required of all prospective teachers of English to be taken before professional block. Sophomores must have permission of instructor.

322. **The Short Story** Three hours

A critical study of this art form as a representative of dramatic motivation in human experience, based upon the work of British, Continental, and American authors.

341. **Survey of World Literature** Three hours

A study in translation of some of the great writers of the world, exclusive of English and American, from Homer through Dante.

342. **Survey of World Literature** Three hours

A continuation of 341 covering the period from the Renaissance to modern times.

343. **The Current Scene in Literature** Three hours

A course showing present-day attitudes as reflected in the work of American and foreign writers.

345. **The Novel** Three hours

An historical and critical study of great British and American novels of the nineteenth and twentieth centuries.

348. **The Bible as Literature** Three hours

A study of the literary types and content of the Bible.

353. **Eighteenth Century Literature** Three hours

A study of important British writers of the period, particularly Swift, Pope, Addision, and Johnson.

360. **Major American Poets** Three hours

A study of leading American poets, particularly Poe, Emerson, Whitman, Dickinson, Frost, Pound, and Eliot.

371. **Folk Literature** Three hours

A survey course whose chief emphasis is on the study of ballads, but kindred material is also studied and collected—superstitions, hymns, riddles, stories, and songs.

413. **Expository Writing** Three hours

Study and practice of the various kinds of expository writing with special emphasis upon the skilled production of research papers.

420. **Seventeenth Century Literature** Three hours

A study of important British writers of the period, including Donne and Herrick, and emphasizing Milton.

421. **Chaucer** Three hours

A study of selected works by Chaucer which help to reveal the range and development of his thought and art. The emphasis will be on the **Canterbury Tales** and **Troilus and Criseyde.**

422. **British Drama** Three hours

The history of English dramatic literature from medieval to modern times.

423. **Literary Criticism** Three hours

A study of past and present critical methods and of the theoretical assumptions upon which they are based.

431. **Methods and Materials in Teaching English** Two hours

Study and practice in the techniques of teaching the fundamentals of grammar and mechanics, composition, and the varied types of literature.

450. **Readings for Honors** One-Three hours

Intensive study in the work of one or more significant authors. Subject area to be suggested by the student and approved by the instructor. PR: Consent of Instructor.

460. **Independent Research** One-Three hours

One or more research papers embodying the results of independent investigation in an area or areas of interest to the student. PR: Consent of Instructor.

FRENCH

(Division of Language and Literature)

101. **Elementary French** Three hours

Pronunciation, oral comprehension and speaking, reading and written drill and composition, elements of grammar. Laboratory.

102. **Elementary French** Three hours

Continuation of 101 completing the basic grammatical principles. One year of high school French is also considered as a satisfactory prerequisite for this course.

201. **Second Year French** Three hours

Reading of excerpts of many types of French writing, drill on difficult passages, verbs, etc. and conversation and comprehension stressed. Laboratory, PR: 101, 102 or two years of high school French.

202. **Second Year French** Three hours

Continuation of French 201. Comprehension, speaking, reading and writing. PR: 201. Lab used.

210. Masterpieces of French Literature Three hours

A course emphasizing reading and aural comprehension of a wide range of French poetry, fiction, and drama. May be substituted for French 201 or French 202, with permission of instructor. PR: 9 hours French, or permission of instructor.

301. Literature of the Seventeenth Century Three hours

Reading of the plays of Corneille, Racine, Moliere with outside reports from other classical writers. Comprehension, speaking, reading and writing all stressed. PR: Two years of college French or equivalent. Lab used.

302. Literature of the Eighteenth Century Three hours

Authors of the Enlightment such as Voltaire, Rousseau, Montesquieu, including all types of literature. Comprehension, speaking, reading and writing stressed. PR: Same as for 301. Lab used.

308. French Conversation Three hours

Intensive drill in expressions of common usage in the most frequent situations to be encountered by a student. An attempt to develop fluency in speaking and better comprehension of a variety of subjects. PR: French 202. Lab.

309. Advanced Grammar and Composition Three hours

Intensive review of basic grammar and study of more obscure grammatical principles developed through the oral-aural method. PR: French 202 Lab.

321. Contemporary Literature Three hours

This is 20th century literature stressing outstanding writers such as Camus, Mauriac, Maurois, St. Exupery, Gide, etc. Comprehension and speaking stressed. PR: French 202.

400. Seminar Three hours

This course is designed to be given the semester preceding the semester when the block is taken. It is an independent study course, preparing each student individually for his teaching. The weaknesses of the student are noted and that phase of his learning is stressed, whether speaking, comprehension, areas of reading he has missed, or writing.

421. Nineteenth Century Literature to 1850 Three hours

The emphasis in this course is on Romanticism with reading from Chateaubriand, Hugo, Lamartime, De Musset, De Vigny. Excerpts from mid-century writers also are read such as Stendhol, Balzac, Merimee, etc. Comprehension, speaking also stressed in this course.

422. Nineteenth Century Literature Since 1850 Three hours

The emphasis in this course is on Realism, Naturalism, Symbolism with Flaubert, Zola, De Maupassant, etc. and a number of poets of the symbolist movement read and discussed. Comprehension and speaking French stressed.

430. **French Civilization and Culture** Three hours

This is a broad study of French civilization from its very beginning to the present, dealing with the outstanding periods historically and culturally and the contributions of French to the world of culture. Comprehension, speaking, reading and writing stressed in that order. PR: 12 hours French.

431. **Methods and Materials in Teaching French** Two hours

Study and practice in teaching French language and literature, grades 7-12.

GEOGRAPHY

(Division of Social Science)

210. **World Regional Geography** Three hours

An introductory course in geography with major attention to the principles and concepts of the subject and a detailed study of the geographical regions of the world.

330. **Geography of North America** Three hours

A regional economic geography primarily of the United State and Canada from standpoint of man's activities in relationship to his natural surroundings and resources. PR: Geography 210.

340. **Geography of Europe** Three hours

A study of the important geographic concepts concerning man's activities in Europe and their importance to the United States and the rest of the world. A general overview will be made of Soviet European geography. PR: Geography 210.

350. **Geography of Latin America** Three hours

This course is a regional study of South America, Central America, Mexico, and the West Indies. PR: 210.

360. **Geography of Africa** Three hours

A regional survey of the continent examining the great diversity that characterizes the area. Emphasis is placed on the complexity of the political pattern, the natural resources, economic development, and the physical setting. PR: 210.

370. **Geography of Asia** Three hours

The study of Asia for the purpose of understanding the various Asian nations, their economic-geographic regions, major commodities, industry, commerce, and major problems. PR: 210.

GEOLOGY

(Division of Science)

201. **Physical Geology** Three hours

This course is given as a description of the composition and structure of the earth and the physical process bringing about changes of the surface of the earth.

302. **Historical Geology** Three hours

The geologic history of the earth and the evolution of animal and plant life as revealed by the rocks.

GERMAN

(Division of Language and Literature)

101. **First Year German** Three hours

The elements of German grammar; simple reading exercises, pronunciation; written assignments.

102. **First Year German** Three hours

A continuation of the above course; special topics in grammar and greater emphasis on reading. PR: 101 or one unit of high school German.

201. **Intermediate German** Three hours

Grammar review; composition; conversation; reading of fiction. The principal aim of the course is the reading of narrative of moderate difficulty. PR: German 102 or equivalent.

202. **Intermediate German** Three hours

This course continues the work of German 201. PR: German 201 or equivalent.

210. **Masterpieces of German Literature** Three hours

A course emphasizing reading and aural comprehension of a wide range of German poetry, fiction, and drama. May be substituted for German 201 or German 202, with permission of the instructor. Laboratory used. PR: 9 hours German, or permission of instructor.

301. **The German Novelle** Three hours

A study of the German Novelle as a literary form of the nineteenth and twentieth centuries, with attention also being given to the German cultural and social environment. Continued work in composition and conversation. PR: 12 hours, or permission of instructor.

302. **German Drama and Lyric Poetry** Three hours

A study of selected German plays and lyric poems, with emphasis on the work of Goethe and Schiller. Continued work in composition and conversation, and aural comprehension. PR: 12 hours, or permission of instructor.

303. **Special Topics** Three hours

A course of individual study under supervision in a topic and skill of special importance to the student, such as the reading of literary or scientific material, aural comprehension, or pronunciation. Laboratory work may be included. PR: 9 hours, or permission of instructor.

HEALTH, PHYSICAL EDUCATION, AND RECREATION

(Division of Health, Physical Education, and Recreation)

100. **Personal Health and Safety** Three hours

The importance of physical and mental health, personal health problems, factors that contribute to good health, and becoming aware of the total information and discoveries in the world of health.

101. **First Aid** Two hours

Acquaints the student with the need for safety, how to prevent accidents, and the basic fundamentals of first aid treatment as related to injuries, shock, poisoning, artificial respiration, and dressings and bandages.

102W. **Freshman Orientation** One hour

Physical Education activities for women designed to meet the needs of the student in health, use of leisure time and physical fitness.

103W. **Freshman Orientation** One hour

A continuation of 102W.

108. **Introduction to Recreational Supervision** Three hours

Introduces recreation majors to the practical work involved in the organization and supervision of activities.

111W. **Track and Field** One-Two hours

The student receives instruction in fundamental techniques of track and field events with particular attention to running, throwing and jumping.

112W. **Field Hockey** One-Two hours

Designed to introduce the student to the skills of field hockey, the positioning and playing areas and selection and use of equipment.

113W. **Softball** One-Two hours

Designed to develop understandings and skill in the techniques of softball.

114M. **Freshman Orientation** One hour

Physical Education activities of men designed to meet the needs of the student in health, use of leisure time and physical fitness.

115M. **Freshman Orientation** One hour

A continuation of 114M; includes activities in tumbling, trampoline, field and track events.

116W. **Soccer** One-Two hours

Theory and practice in fundamentals.

117W. **Basketball** One-Two hours

Theory and practice in fundamentals.

118M. **Fundamental Skills and Exercise** Three hours

Introduces the student to a program of activities associated with teaching physical education classes which includes team sports, game situations, officiating and safety precautions related to each situation.

119M. **Intermediate Skills and Activities** Three hours

Designed to teach basic fundamentals of wrestling and track events, tumbling, stunts and apparatus work. It includes instruction in the roll, inverted balance, backspring and other progessions.

128W. **Tumbling** One hour

Introduces the student to basic stunts and tumbling activities.

129W. **Gymnastics** One hour

Introduces the student to apparatus such as the ropes, trampoline, minitramp, vaulting, uneven parallel bars, and balance beam.

130. **Beginning Swimming** One hour

Primarily designed for the non-swimmer, but also offers instruction in elementary, intermediate and advanced swimming skills.

134W. **Volleyball** One-Two hours

Introduces the student to basic skills, rules and history of the game, game situations and team play.

135W. **Fundamental Skills** One-Two hours

Provides the student with the knowledge and skills of the most efficient and graceful way to perform the fundamental exercises of walking, running, standing, sitting, jumping and throwing.

136. **Bowling** One hour

Introduces the skills of bowling and provides practice in game situations.

143W. **Individual Sports** One-Two hours

Fundamentals of badminton, paddle, table and deck tennis and archery.

146. **Social Dance** One hour

Provides opportunity for the student to cultivate dance etiquette, to develop grace and poise; teaches various social dances such as the waltz, fox trot, polka and tango.

148. **Modern Dance** Two hours

An introduction to modern dance, which provides instruction in space, time, quality of movement, dance positions, creative dance techniques, composition, and methods of teaching rhythmic patterns.

202. **Community Health** Three hours

Acquaints students with community health problems. It includes sociological and anthropological aspects of health, community planning and organization to solve health problems, community health education, and basic public health problems with attention to alcoholism, water and air pollution, mental health, and space.

203. **Safety** Three hours

Provides information on safety needs of students and community, suggests teaching principles and procedures to meet these needs, and furnishes material that can be utilized in the areas of safety education.

228W. **Lacrosse** One hour

Basic skills, game play, rules strategy and evaluation of lacrosses.

230. **Intermediate Swimming** One hour

The improvement of swimming skills. Students are introduced to arm and leg strokes of the nine forms of swimming.

236. **Tennis** One hour

Major emphasis is placed on fundamentals, advanced skills and teaching techniques.

241M. **Individual and Dual Sports** Two-Three hours

Instruction in badminton, paddle, table and deck tennis and archery, and specialization in other similar physical education activities.

242M. **Team Sports** Two-Three hours

Provides an orientation in physical education. In addition to an introduction to physical education it provides opportunity to learn techniques of basketball, field games, and volleyball.

245. **Gymnastics** Two hours

Development of skills necessary to perform on the ropes, rings, trampoline, parallel bars, balance beam, side-horse, and other apparatus.

247. **Folk and Square Dancing** Two hours

A survey of the history and development of folk and square dancing. Development of necessary skills and participation and teaching.

250. **Foundations of Health, Physical Education, and Recreation** Three hours

Designed to give the student a background in the historical, philosophical and scientific foundations of physical education.

282. **Community and Industrial Recreation** Three hours

Organization and supervision of recreation for community and industrial groups.

302. **Foundations of Science in Physical Education** Three hours

Anatomy and physiology of human movement for students preparing to teach Health and Physical Education in grades 1-9 and 7-9.

304. **Human Anatomy and Physiology** Three hours

The basic essentials of anatomy and physiology. Special emphasis is placed on the body as an integrated whole, role and functions of the nervous, muscle and skeletal systems, body metabolism, and reproduction of the human being.

305. **Kinesiology** Three hours

The science of body movements and its application to daily living which includes knowledge of the basic mechanics of human motion. PR: 304.

310. **School Health Problems** Three hours

Presents a comprehensive approach to the school health programs; it includes history of modern day better programs, understanding of the health problems of the school-age child, and instructions in developing appropriate programs.

320M. **Officiating Football and Basketball** Two-Three hours

Rules; techniques of officiating and laboratory work.

321M. **Basketball** Two-Three hours

Fundamentals of playing and coaching basketball.

322M. **Football** Two-Three hours

Fundamentals of playing and coaching football.

323M. **Baseball** Two-Three hours

Fundamentals of playing and coaching baseball.

324M. **Wrestling** Two-Three hours

Develops professional competencies for effective teaching, coaching and administration of amateur wrestling.

325M. **Track and Field** Two-Three hours

The development of competency in field and track events, coaching organizing and teaching classes and meets; prevention and treatment of injuries, and a survey of appropriate literature.

326W. **Coaching and Officiating Volleyball, Hockey, and Soccer** Three hours

Practical experience in sports classes in working with organized groups, teaching skills, planning and conducting games and clinics in volleyball, hockey, and soccer.

327W. **Coaching and Officiating Basketball, Track, Softball, & Lacrosse** Three hours

Practical experience in sports classes in working with organized groups, teaching skills, planning and conducting games and clinics in basketball, track, softball, and lacrosse.

328. **Games and Rhythms for Elementary School** Two hours

Designed to provide the student with knowledge of and skill in participation in various games and rhythms suitable to elementary school children. It includes elements of planning and organization, safety education, and physical education on the elementary level.

329. **Physical Education in the Elementary School** Two hours

Actual teaching experience. Placing emphasis on methods, evaluation of student progress and teaching atypical children. Elements of safety education are included.

330. **Advanced Swimming.** One hour

Advanced swimming techniques.

331. **Lifesaving and Water Safety** Two hours

Swimming and safety skills are taught and designed to qualify the student for the American Red Cross Instructor's certificate.

360. **Evaluating and Assisting** Three hours

The evaluation process in health and physical education which includes the administration of various tests for evaluating pupil achievement. It also provides teaching experience while assisting the college instructor.

362. **Organization & Administration of Health, Physical Education & Recreation** Three hours

The place of physical education and health education in the total education program. It emphasizes administrative policies and activities, budget making, purchase and care of equipment, and surveys the physical education organizations and service program.

384. **Camping and Youth Organization** Three hours

A study of the camping movement, outdoor education and organizations serving youth.

385. **Recreational Leadership** Three hours

Organizing and directing group recreational activities.

386. **Recreation Field Work and Inspection** Three hours

A laboratory course including planned observation trips to recreation centers and playgrounds with training periods in organization and inspection.

407. **Physiology of Exercise** Three hours

Provides knowledge of the physiological background necessary for understanding the response of the body to exercise. Emphasis is placed on aspects of physical fitness and conditioning for the individual throughout life.

408. **Adapted Physical Education** Two hours

A study of modern trends in adapted physical education programs to meet the needs of all children and youth. Includes teaching techniques used in adapted physical education programs and attention to planning programs for the disabled or handicapped.

431. **Methods and Materials in Teaching Physical Education** Two hours

Provides the student with information concerning methods of teaching health education, physical education, recreation and safety. It emphasizes the materials and techniques of instruction appropriate for grades 7-12.

490. **Outdoor Education** Three hours

The relationships which exist among various aspects of recreation in outdoor education.

HISTORY

(Division of Social Science)

107. **United States History I** Three hours

A survey course in United States history from the Age of Discoveries to the Reconstruction era.

108. **United States History II** Three hours

A survey course in United States history from the Reconstruction era to the present time.

111. **History of Civilization I** Three hours

A survey of the history of man from the earliest times to the beginning of the modern era.

112. **History of Civilization II** Three hours

A survey of the history of man from the beginning of the modern era to the present time.

302. **West Virginia History** Three hours

A study of West Virginia history, government, and geography from the first settlements to the present time. PR: History 107, 108.

305. **History of England I** Three hours

A survey of English history from Roman times to the Glorious Revolution. PR: 111, 112.

306. **History of England II** Three hours

A survey of English history from 1689 to the present. PR: 112.

312. **Diplomatic History of the United States** Three hours

A study of the foreign relations of the United States and the development of basic American foreign policies from the colonial period to the present. PR: History 107, 108.

315. **Colonial America** Three hours

A study of the American colonies from their beginnings to the end of the Revoluntionary War. PR: History 107.

316. **The American Federal and National Period** Three hours

A study of United States history from the Revolutionary War to 1850. PR: History 107.

317. **The Civil War and Reconstruction** Three hours

PR: History 107, 108.

318. **United States from 1876 to 1929** Three hours

PR: History 108.

319. **Recent America** Three hours

United States history from 1929 to the present. PR: History 108.

320. **American Economic History** Three hours

A survey of the economic development of the United States from the colonial period to the present. PR: History 107, 108.

330. **Europe from 1300 to 1763** Three hours

A study of the development of Europe's national monarchies, the rise of capitalism and mercantilism, religious history from the Reformation to Pietism and Deism, and European intellectual achievement from the Renaissance to the Enlightment. PR: History 111, 112.

331. **Europe from 1763 to 1850** Three hours

A study of the causes of the French Revolution, the Revolution itself, the career of Napoleon, and the conflict or revolutionary and counter-revolutionary forces in the post-Napoleonic era. PR: History 111, 112.

340. **Europe from 1850 to 1919** Three hours

PR: History 112.

341. **Europe from 1919 to the Present** Three hours

PR: History 112.

350. **Latin America: The Colonial Period** Three hours

A survey of Latin American history from 1492 to 1821. PR: History 111, 112.

351. **Latin America: The National Period** Three hours

A survey of the history of the Latin American nations from 1821 to the present. PR: History 111, 112.

360. **European Intellectual History** Three hours

A study of the main currents of European thought and their important relationships with the historical setting. PR: History 111, 112.

371. **Social and Intellectual History of the U.S. I** Three hours

A study of the main currents of social and intellectual history of the U.S. from the colonial period to the civil war. PR: 107, 108.

372. **Social and Intellectual History of the U.S. II** Three hours

A study of the main currents of social and intellectual history of the U.S. from Reconstruction to the present. PR: 107, 108.

380. **Afro-American History and Culture** Three hours

A multi-disciplinary approach to the Negro in American life. PR: History 108, Sociology 110 and consent of the instructor.

422. **History of the Far East** Three hours

A brief survey of the cultural development of China, Japan and Korea to 1800, and a more detailed analysis of the impact of the West upon these areas from 1800 to the present. PR: History 112.

423. **History of Southeast Asia** Two hours

A survey of Southeast Asia with primary emphasis on India and Pakistan as a culture center. Major topics include: Western colonialism, movements of nationalism, problems of independence, and international relations: PR: History 112.

431. **Methods and Materials in Teaching Social Studies** Two hours

Methods of teaching the social studies in the secondary schools.

450. **History of Russia I** Three hours

Russian national development from its origin to 1917. PR: 112.

451. **History of Russia II** Three hours

Development of the Soviet Union from 1917 to the present. PR: 112.

460. **Guided Historical Study** One-Three hours

Intensive reading on a selected topic or problem in American history. PR: Consent of instructor.

461. **Guided Historical Study** One-Three hours

Intensive reading on a selected topic or problem in European history. PR: Conset of Instructor.

470. **Seminar** Three hours

Intensive study of a selected topic with emphasis on individual research, report writing, and discussion. PR: Consent of instructor.

HOME ECONOMICS

(Department of Home Economics)

101. **Principles of Clothing Construction** Two hours

Basic construction processes used in simple garments for school and street wear. Problems are adapted to previous experience.

102. **Advanced Clothing Construction** Three hours

The use of detailed and tailored finishes and problems of fitting and management in the construction of suits and varied types of clothing.

103. **Principles of Clothing Selection** Two hours

An analysis of the factors which influence the selection of clothing for both the family and the individual.

110. **Elementary Nutrition** Two hours

A study of principles of nutrition and their application to the selection of food for individuals throughout the life cycle under varying economic, social and cultural situations.

201. **Principles of Food Selection and Preparation.** Three hours

Application of recent theories of food preparation and preservation as they affect the nutritive value, flavor, and appearance of food. Foods prepared are incorporated into family meals.

202. **Advanced Foods** Three hours

Continuation of Home Economics 201; meal services with emphasis on planning, preparing and serving family meals, that will teach management of time, energy, and money.

210. **Textiles** Three hours

Development of an understanding of the effect of fiber content, construction, and finish on the quality, serviceability, care, and cost of clothing and household fabrics.

303. **Nutrition** Three hours

A basic foundation in the science of nutrition and practical approach to dietary selection according to varying psychological, cultural, and economic situations. National and international problems of nutrition are discussed.

305. **Nutrition in the Public Schools** Three hours

Essential nutrition information for the teacher in the public school federal school lunch programs as an integral part of the school program.

310. **Family Life Education** Three hours

Study of family experiences and cultural environment influencing personality development. Interaction of family members through all phases of family living. Evolution of the family from institution to companionship family.

312. **Consumer Education** Three hours

A study of the selection of consumable goods and the factors affecting the selection such as labeling, advertising, credit, insurance, and contracts; source material provides consumer information; the consumer movement and legislation for consumers.

315. **Home Management** Three hours

The concepts of the process of management and its effect on the family resources, specific resources, and to the family life cycle.

316. **Household Equipment** Two hours

A modern scientific approach to the principles of the selection, use and care of household equipment. Demonstrations of equipment and home lighting are included.

320. **Home Planning and Furnishing** Four hours

Designed to help the family analyze its needs and use its resources advantageously in the selection of housing. Development of discrimination in the selection and arrangement of furnishings.

330. **Child Care and Development** Three hours

The training of the child from pre-natal period through the preschool period. Habit training and development of the child—physical, social, emotional, and spiritual training—are included.

351. **Home Arts** Three hours

The use of color, texture, design in selecting, arranging and constructing articles for the home through the techniques of weaving, stitchery, textile printing, etc.

402. **Tailoring** Three hours

The construction of a dress, suit, and accessories with emphasis on selection of fabric, fitting, and tailored details. Designed for evening students. Consult instructor for prerequisites.

431. **Methods and Materials in Teaching Home Economics** Two hours

Required for teachers. The philosophy and goals of home economics, organization of teaching materials for the five areas, selection of furnishings, and management of the department.

INDUSTRIAL EDUCATION

(Division of Industrial-Technical Education)

101. **Electricity I** Two hours

A study of DC circuits, the electron theory, resistance, power, magnegtism, conductors and insulators, theory and use of the multimeter. PR: I.E. 107, Physics 102, or consent.

102. **Electricity II** Two hours

A study of AC circuits including inductance, capacitance, reactance, impedance and phase relationships. PR: I.E. 101.

106. **Mathematics for the Technician I** Three hours

Fundamental operations with signed numbers, factoring, simultaneous equations. Graphs, exponents, trigonometric functions, right triangles, radian measure, and logarithms. Problems are chosen to illustrate basic concepts encountered in industrial technology. May not be counted toward a baccalaureate degree.

107. **Mathematics for the Technician II** Three hours

A continuation of I.E. 106. May not be counted toward a baccalaureate degree.

110. **Basic Electronics I** Two hours

A study of vacuum tube technology including various types of vacuum tubes, their theory of operation and application to typical electronic circuits.

111. **Basic Electronics II** Two hours

A continuation of I.E. 110.

120. **Drafting I** Two hours

A study of drawing as the universal language of industry. This course is on the college level for beginners. It includes lettering, sketching, orthographic projection, sectional views, and auxiliary views.

122. **Architectural Drafting I** Two hours

A course in the study of architectural nomenclature and terminology, structural members and materials used in construction of residential units. Symbols, conventions, and sectional views are studied and drawn in compliance with the Federal Housing Authority Code.

123. **Machine Design** Two hours

A course in which the characteristics of metals and machine parts are studied. Emphasis is placed on the representation of threads, cams, gears, and formulas relating thereto. A selected piece of machinery will be measured, sketched, and drawn.

130. **Printing Processes I** Two hours

Introductory experiences in the various methods used by the graphic arts industry. These include letterpress and offset printing, dry point and block etching, silk screen print, embossing, marking devices, and bookbinding.

131. **Printing Laboratory I** Two hours

132. **Typography I** Two hours

Principles and experiences in the fundamentals of composition and the application of the point system and printers mathematics. An intensive study of type characters, fonts, series, families, and classifications of foundry type.

133. **Offset Printing I** Two hours

The problems and techniques of offset presswork for duplication, production presses, and letterset. Related problems in inks and paper relationships.

134. **Graphic Layout and Design I** Two hours

The fundamentals of design for printers and the use of art and color in printing. PR: I.E. 132.133.

136. **Printing Composition I** Two hours

Use of the offset composing machines, photography and plate making equipment. PR: Typing proficiency.

137. **Printing Composition II** Two hours

A continuation of I.E. 136.

140. **Engine Theory I** Two hours

A survey course of engine design and characteristics. The operation principles of internal combustion engines and nomenclature, location, and function of stationary and moving parts.

141. **Engine Laboratory I** Two hours

142. **Power Transfer Theory I** Two hours

A study of the transfer of power to its terminal use through transmissions, torque converters, propellers, shafts, universals, differentials, and other driving mechanisms as well as direct transfer by air or other fluids.

143. **Power Transfer Laboratory I** Two hours

144. **Carburetion and Ignition Theory I** Two hours

Methods and principles involved in the flow, metering, atomization, and delivery of fuel. Theory and practice of generation and distribution of electricity through the electrical system.

145. **Carburetion and Ignition Laboratory I** Two hours

146. **Hydraulic and Suspension Systems Theory I** Two hours

Study of the theories and practices of suspension and hydraulic systems used in modern vehicles.

147. **Hydraulic and Suspension Systems Laboratory I** Two hours

160. **Hand Woodworking** Two hours

A beginning course of woodwork in which materials, tools, tool processes, fastenings, and construction are studied, Construction work consists of procedural tasks embodying typical tool operations.

161. **Gas Welding I** Two hours

A basic course involving the reading of symbols and the production of weldments in and out of position that are involved with ferrous metals.

162. **Arc Welding I** Two hours

A course in the fundamentals of manual, coated-electrode welding using A.C., D.C., and combination welding machines.

163. **Sheet Metal I** Two hours

A beginning course including instruction in laying out surface patterns, making useful articles involving typical stretch out, joints, wiring, soldering, and riveting. PR: I.E. 220.

165. **Cold Metal Processing** Two hours

Laboratory course in the basic use of tools and techniques used in the shaping, forming, drilling, tapping, and joining of the ferrous metals in a cold state. Use and care of the hand tools and layout procedures. Methods of fastening and holding.

166. **Building Construction (Residential) I** Two hours

A study of the practices utilized in construction of small buildings and the problems involved in the erection of the building from the ground up. PR: I.E. 160, 122, 222, or 12 hours of I.E. work.

167. **Machine Shop I** Two hours

A beginning course in the fundamental hand and machine tools. Study will involve care and operation of the lathe, drill press, power hack saw, all-purpose band saw, and surface grinder. Material and tool specifications will be introduced.

170. **Statics** Three hours

A study of force systems in static equilibrium. Includes concurrent, non-concurrent force systems, trusses, friction, moments of inertia, and centroids of areas. PR: Math 112 or I.E. 107; Physics 101.

180. **Materials and Processes of Industry** Two hours

A detailed analysis of the general nature and extent of basic American industries with an emphasis on materials and processes. Special attention is given to the technical, consumer, occupational, cultural, recreational, and social functions of the respective industries.

181. **General Shop I** Two hours

A multiple materials experience laboratory designed to run concurrently with I. E. 180, wherein students develop a variety of project activities. Students experience a laboratory situation similar to that in which they may find themselves during their teaching careers. Each student is expected to explore, to experiment, and to develop ideas which are essentially expressive of himself.

186. **Recreational Crafts** Two hours

Activities involving a variety of tools, materials, processes, and machines are employed to acquaint the student with the crafts. The student is encouraged to develop ideas which are expressive of himself. In addition, the organization and administration of recreational crafts programs is studied.

190. **Industrial Orientation** No credit

An orientation course for the freshman student providing a general view of engineering technology and the place of the technician on the engineering team.

191. **Personnel Problems and Labor Relations** Two hours

A seminar dealing with the problems of labor and management. Wage and hour laws and industrial regulations.

192. **Personnel Administration** Two hours

A study of personnel management, industrial supervision and labor-union relations. Also included are job evaluation, wage systems, and merit rating.

201. **Electrical Measurements Laboratory I** Two hours

A study of alternating and direct current circuits, electronic tubes and semiconductors; assembly and tracing of electrical and electronic circuits. PR: I.E. 102.

202. **Electrical Measurements Laboratory II** Two hours

A continuation of I.E. 201.

204. **Electrical Machinery DC** Two hours

A study of the principles and operation of direct current machines. Includes generator and motor characteristics, efficiency ratings, and applications of DC equipment. PR: I.E. 101, 102.

205. **Electrical Machinery AC** Two hours

A study in the operation and construction of alternating current machines. Includes polyphase induction motors, single phase motors, synchronous motors, converters, and rectifiers. PR: I.E. 204.

220. **Drafting II** Two hours

A continuation of I.E. 120 including sheet metal intersections and developments. Transition pieces, square to round, and round to round. Introductory machine drawing, working drawings, and assigned projects. PR: I.E. 120 or advanced placement.

221. **Graphic Illustration** Two hours

Industrial illustrating. This course involves a study of machine design, metals, and alloys. Small machine assembles will be drawn by the exploded view method showing all parts in relation to other parts. This type of drawing is used extensively by industry for assembly purposes. PR: I.E. 120, 123.

222. **Architectural Drafting II** Two hours

A continuation of I.E. 122, symbols, conventions, sectional views, and other forms of architectural detailing for one and two living units, in compliance with the Federal Housing Authority Code. PR: I.E. 122.

223. **Jigs and Fixtures** Two hours

Instructions in the design of cutting tools, drill jigs, milling fixtures and press tools. Basic principles covering the proper locating, supporting and clamping of parts in jigs and fixtures. The use of company catalogs in the selection of standard tool design accessories is emphasized PR: I.E. 123.

232. **Typography II** Two hours

Advanced laboratory experiences in composition and presswork and composing room practices. PR: I.E. 133.

233. **Offset Printing II** Two hours

Principles and experiences involved in lithography as a printing process. Cold type composition, camera work, stripping, plate processing and press work; line shots and half-tones. PR: I.E. 132.

234. **Graphic Layout and Design II** Two hours

Advanced experiences in design and experiences in the use of color in many forms of commerical printing. PR: I.E. 134.

235. **Printing Estimating** Three hours

Printer's mathematics. A thorough understanding of paper stock, inks, and chemicals. Elements of estimating composition, presswork, binding, and other costs in the operation of a printing situation.

240. **Engine Theory II** Two hours

A study of the principles of diagnosing, locating, and correcting troubles encountered in engine operation and problems which occur in their testing and servicing. PR: I.E. 140.

241. **Engine Laboratory II** Two hours

242. **Power Transfer Theory II** Two hours

Advanced principles of mechanical power transfer through automatic transmissions and differential mechanisms. PR: I.E. 142.

243. **Power Transfer Laboratory II** Two hours

245. **Hydraulics** Two hours

A study of the concepts of fluid power transmission, control systems, characteristics of pumps and fluid pressurizing mechanisms. Hydraulic cylinders, rams, and fluid motors are explained fully. A survey of control valves, servos and associated devices is also included.

260. **Machine Woodworking** Two hours

Laboratory and lecture work in the principles and techniques of operating the power tools normally found in the woodworking industry. Emphasis is placed on the development of accuracy and safety in the use of the equipment necessary to each of the manufacturing operations.

261. **Gas Welding II** Two hours

An advanced course in oxy acetylene welding involving fabrication for structural and industrial maintenance, piping, alloy and non-ferrous metals. PR: 161.

262. **Arc Welding II** Two hours

An advanced course in arc welding dealing primarily with welding metallurgy, A.P.I. and industrial transmissions, metallizing components, Tungsten Inert Gas (T.I.G.), and Gas Metal Arc (M.I.G.) applications. PR: 162.

263. **Sheet Metal II** Two hours

A continuation of I.E. 163. Advanced work will be offered in layout problems, joints, and other typical sheet metal situations commonly found in duct work. PR: I.E. 163.

265. **Hot Metal Processing** Two hours

Tools and processes involved in the shaping of metals at an elevated temperature, elementary welding, forge and foundry work in the non-ferrous metals, heat treatment, and oxide coloring.

266. **Building Construction (Industrial) II** Two hours

Technical information and advanced problems of roof framing, cornice construction, exterior finish. PR: I.E. 166.

267. **Machine Shop II** Two hours

This class leads the advanced student into the problems and methods of solving these problems in milling machine operations. Gearing problems, equations, gear cutting methods, and the necessary related technical information forms the basis of this course. PR: I.E. 167.

270. **Strength of Materials** Three hours

A study of the behavior of materials under various types of loads. Includes stress-strain relationships, torsion, bending stress, riveted and welded joints. PR: I.E. 170.

271. **Strength of Materials Laboratory** One hour

Tension, compression, shear, impact, and hardness testing of materials. PR: I.E. 270.

274. **Graphic Solutions I** Two hours

A study of the spatial relationships required for analysis of three dimensional problems including the techniques of descriptive geometry. Also included is an introduction to graphical arithmetic and algebra. PR: I.E. 170, 220.

281. **General Shop II** Two hours

Designed to run concurrently with I.E. 380 to provide an opportunity for the student to build upon his experiences in I.E. 181 and to improve upon his understanding of the laboratory teaching situation. Laboratory experiences are in keeping with the basic industries and their function in the junior-senior high school. PR: I.E. 181.

284. **Plastics I** Two hours

A study of the technical aspects of manufacturing processes related to thermoplastic materials. Specific attention is given to types, characteristics, design principles, molding, fabricating, and finishing techniques.

285. **Industrial Design** Two hours

Form and function; natural phenomenon; simple industrial design solutions in human engineering, material, structure, and methods of manufacture. Model and mechanical drawings of products developed PR: I.E. 120, 220.

286. **Crafts** Two hours

The student is encouraged to explore, experiment, and create with a variety of materials and processes through the constructive manipulation of hand, tool, and machine. The various craft disciplines are analyzed in terms of our present culture and the material crafts of our heritage.

289. **Ceramics** Two hours

A laboratory experience including the technical aspects of clay products to include design principles, forming, decorating, and glazing techniques. The student will be encouraged to explore and develop ideas which are expressive of himself.

315. **Industrial Electronics and Controls** Two hours

Analysis of direct and alternating current motor starting equipment across the line and step starters, safety devices and remote control circuits. Basic vacuum tubes, power supplies, voltage amplifiers, phase shift circuits, and electronic motor control circuits. PR: I.E. 101, 102.

316. **Advanced Electronics I** Two hours

A study of rectification with filtering, small signal vacuum tubes and transistor amplifiers. Measuring techniques, use of vacuum, transistor analyzers and curve tracers. PR: I.E. 110.

317. **Advanced Electronics II** Two hours

A continuation of I.E. 316 with further study of small signal amplifiers and various other vacuum and solid state devices. PR: I.E. 316.

320. **Drafting Room Techniques I** Two hours

Analysis of patent drafting, technical and legal consultation, preliminary sketch and drawings, indentures, expressions, and final drafts. PR: Six semester hours in drafting.

321. **Structural Drafting** Two hours

The design and checking of suitable steel sections to be used as beams, girders, lintels, columns and struts, the design of simple frames, and the use of bar joists, and open web long span joists, the design of timber beams, girders, columns, and wood floors. Different types of fasteners are discussed and vector diagrams are employed to solve for the loads of the various members of a frame. In addition to static loads, wind and impact loads are dealt with. PR: I.E. 120, 122, 222.

322. **Architectural Design** Two hours

A continuation of I.E. 222 in which design of houses, building materials, and specifications are studies in compliance with the Federal Housing Authority Code. Each student will develop and print a complete set of plans, specification sheets, and cost estimate for his own house. PR: I.E. 222.

323. **Electrical Drafting I** Two hours

An introduction of the various kinds of drawings and drafting techniques used in the design and construction of electrical equipment. Use of basic electrical principles, and typical applications will be utilized in drafting problems. PR: I.E. 120, 220, 101, 102.

333. **Printing Techniques I** Two hours

Advanced laboratory experiences in typography. PR: I.E. 133, 233.

334. **Photo Composition I** Two hours

Correct use, operation, and care of VariTyper, Headliner, and other composing machines. PR: I.E. 234.

335. **Printing Plant Management** Three hours

A study of the organization, supervision, and operation of a printing plant with practical problems in inventory, production, costs and quality controls. PR: I.E. 235.

345. **Pneumatics** Two hours

Principles and practices in the use of compressed air as a form of power. Valves and controls, power pistons, pressure relief devices, and other items necessary for the effective operation and control of pneumatic equipment.

360. **Metallurgy** Two hours

An introduction to the basic elements of metallurgy including structure of metals, properties of metals, smelting, refining, heat treating, and testing. PR: I.E. 165, 265.

366. **Construction Theory & Lab I** Two hours

Introductory course in construction materials and methods. Physical and mechanical properties of wood. Grades of wood construction. Types of construction and foundations. Cement, gypsum, and masonry materials methods.

370. **Manufacturing Processes I** Two hours

Experience on lathes, milling machines, shapers, planers, drill presses, surface and bench grinders, bench work, use and care of micrometers and measuring tools. Application of threading, turning, facing, taper turning on lathes. Use of the plain dividing head and other milling attachments. Drill grinding. Machine shop safety regulations. Forming flat surfaces on shapers and planers. Power sawing applications. PR: I.E. 267.

371. **Thermodynamics** Three hours

A basic study of thermodynamic properties of substances, work and heat relationships, the conservation of energy and various gas cycles. Extensive applications of these principles to practical problems involving heat exchangers, nozzles, and steam turbines. PR: Math 112 or I.E. 107; Physics 101.

372. **Surveying** Two hours

Instruction in the use of the engineer's tape, transit, and level and the methods of recording field data in note form. Field problems associated with the theory will cover horizontal and vertical measurements, differential, profile and other leveling operations, and angular and bearing measurements with the transit. Also included is traverse layout and computing. PR: I.E. 107 or Math 112.

373. **Computing and Estimating** Two hours

Problems of approximate and exact methods of arriving at lump sum and unit prices, and estimating total costs for materials and services; accepted methods of itemizing preliminary and final estimates.

374. **Graphic Solutions II** Two hours

A nomography, empirical equations, graphical calculus and the corresponding numerical techniques used in the solutions to applied problems. PR: I.E. 107 or Math 112 and I.E. 120.

375. **Plumbing and Sanitation** Two hours

Study of commercial and residential sanitary systems, sizing and layout of plumbing and sanitary systems, terminology and the interpretation and application of the governing codes.

376. **Heating and Air Conditioning** Two hours

Laboratory problems dealing with installation, maintenance and operation of forced warm air heating systems, hot water systems, steam and steam conversion systems, and radiant panel heating systems. System performance testing, air distribution system analysis, equipment operation and ratings. Application of automatic controls and instrumentation of heating systems. Laboratory experiments on design principles of piping systems, duct and duct fittings. PR: I.E. 163, 263.

377. **Time and Motion Study** Two hours

Fundamentals of work simplification and motion economy using the techniques of motion and time study for the development of effective methods of production.

378. **Plant Layout and Materials Handling** Two hours

A study of the economical arrangement of stocks, machines, and layout of aisles for efficient handling of materials and production.

379. **Industrial Economy** Three hours

Techniques of engineering economy as related to cost, design, and selection of materials. PR: Math 112 or I.E. 107.

380. **Philosophy of Industrial Arts** Two hours

Designed to give the student a historical background of the industrial arts movement as a basis for developing a philosophy as to the place and function of industrial arts in general education. PR: 12 hours of Industrial Arts courses.

381. **Organization and Administration of Industrial Arts** Two hours

Designed to aid the student as a future teacher of industrial arts. Problems of administration, shop arrangement, care of machinery, ordering of materials and supplies, and techniques of shop instruction will be studied. PR: 6 hours of Industrial Arts courses.

382. **Furniture Construction and Design** Two hours

A lecture-laboratory course in the developmental function of design, especially as it applies to the area of household furniture. Student problems include the designing of furniture and other household articles which are to be used as projects in the industrial arts laboratories. PR: I.E. 160, 260.

384. **Plastics II** Two hours

Through research and development oriented activities the student will experiment with and design products utilizing both thermo-setting and thermoplastic materials. Fabrications, molding, casting, bonding, and heat forming techniques will be studied. PR: I.E. 284.

385. **School Shop Maintenance I** Two hours

Care, repair, and general maintenance of tools and equipment used in teaching industrial laboratory classes, and the construction of storage facilities, teaching devices, and visual aids.

386. **Industrial Arts for the Elementary Teacher** Two hours

The laboratory experiences are derived from the technology of the home, community, and world analogous to the lower, intermediate, and upper elementary grades. A variety of materials, tools, and processes are utilized as each student develops his own ideas. Emphasis is also placed upon the organization and administration of such a program.

391. **Wood Finishing** Two hours

A survey course in the materials and methods commonly used in the finishing of furniture and similar articles, and readily applicable to use in high school shop situations. The various types of dyes, stains, shellacs, varnishes, lacquers, and sealers will be used on sample panels. PR: I.E. 160.

392. **Blueprint Reading** Two-Three hours

A course in the reading of the prints and drawings most commonly found in industrial operations. Emphasis is placed on the development of speed and accuracy in the use of working drawings.

415. **Electrical Maintenance** Two hours

Materials, tools, and techniques involved in the maintenance of the electrical and electronic equipment. Switches, breakers, dimmers, timing devices, single and polyphase motors. PR: I.E. 101, 315.

416. **Advanced Electrical Theory I** Two hours

A study of special circuits and applications. High frequency circuits, electromagnetic fields and methods of solution of selected problems.

417. **Advanced Electrical Theory II** Two hours

A continuation of I.E. 416.

420. **Drafting Room Techniques II** Two hours

Advanced technical work for specialists in the drafting field. Recent developments, advanced technical and experimental work and technical reports in drafting. PR: I.E. 320.

421. **Drafting, Planning, and Scheduling** Two hours

The administration practice methods necessary to the effective use of the designing and drafting staffs in the architect's office. Legal requirements, customer relations, costs analysis. PR: 8 semester hours of architectural or mechanical drafting.

422. **Architectural Drafting III** Two hours

Preparation of plans for a commercial or public building. Sketching and instrument drawings, rendering, and reference to building codes. PR: 122, 222.

423. **Electrical Drafting II** Two hours

Industrial and communication electronics symbols; elementary wiring diagrams for 8-C amplifier chassis; composite elementary diagram to wiring diagram of sequence controller; sketch of elementary to wiring diagram of a semi-automatic welding controller. PR: I.E. 323.

431. **Methods and Materials of Teaching Industrial Arts** Two hours

A course in which the particular problems and techniques of teaching Industrial Arts are dealt with. Emphasis is given to the special methods of handling demonstrations, use of special teaching aids and other related problems peculiar to the Industrial Arts Shop. PR: I.E. 380, 381, and senior standing.

433. **Printing Techniques II** Two hours

Advanced laboratory experiences in offset printing techniques. PR: I.E. 132, 232.

434. **Photo Composition II** Two hours

Reproduction of line material and the use and care of the process camera. The reduction and enlargement of copy. Determining basic exposure and developing, stripping negatives and platemaking. PR: I.E. 334.

435. **Printing Mechanics and Press Design** Four hours

Principles of operation of the printing machinery and the adjustment, repair, and proper care of the equipment. PR: 12 hours in the printing option.

445. **Fluid Mechanics** Three hours

A study of basic concepts of fluid flow, including the Bernoulli Equation, orifices and nozzles. Pipe friction, heat losses and pumping systems are covered in detail. PR: I.E. 371.

466. **Construction Theory and Lab II** Two hours

Modern steel, wood, and masonry construction design methods and practices. Problems in beams, girders, and columns. Concrete analysis. A.S.T.M. testing. Fundamentals of utilities control.

470. **Manufacturing Processes II** Two hours

Set up and operation of machines and turret lathes. Practice in spiral and differential indexing. Cam milling. Tool and cutter grinders. Surface grinding, machine tool setup, precision level and test bars. Construction of cemented carbide single point tools. PR: I.E. 370.

473. **Contracts and Specifications** Two hours

A study of some of the regular and business aspects of the law pertinent to the engineering profession with special emphasis on various types of contracts used in the construction industry. Instruction also is afforded in the field of bidding procedures and in the availability of surety bonds and insurance. Specifications are analyzed from the standpoint of design and construction features.

474. **Codes and Practices** Two hours

A study of the general building codes recommended by the National Board of Fire Underwriters and a detailed study of the building codes of local communities. An analysis of building types and the economical use of materials selected for construction.

475. **Dynamics** Three hours

A study of the effect of forces on bodies in motion. Analysis of motion by mass acceleration methods. PR: I.E. 270.

477. **Industrial Management** Two hours

A survey of the operational, financial, marketing and accounting activities of industrial organization. A detailed survey of the duties of management as related to production, personnel, and human factors.

478. **Production Controls** Two hours

Current practices in production, planning, routing, scheduling and dispatching, study of production standards, labor efficiency and costs, quantity and quality control.

479. **Power Plants** Three hours

A study and analysis of stationary power plants and prime movers, steam generators, steam and gas turbines, and auxiliary equipment. PR: I.E. 371.

481. **General Shop III** Two hours

Designed to run concurrently with I.E. 381 to permit students to experience activities demonstrative of various methods of laboratory teaching. Considerable attention is given to an analysis of the organization and administration of general shop. PR: I.E. 281.

482. **Cabinet Making I** Two hours

A continuation of I.E. 382. The projects will be made in conformity with the drawings and specifications developed in the previous course. Advanced work in the use of machine tools, techniques, and processes will be stressed. A high level of craftsmanship will be maintained. PR: I.E. 160, 382.

485. **School Shop Maintenance II** Two hours

A continuation of I.E. 385 with emphasis on industrial application.

491. **Woodworking III** Two hours

A continuation of I.E. 260 with emphasis on the use of advanced techniques in the design and construction of home furniture. Particular attention is given to the use of veneers, inlays, overlays, and other advanced methods of enhancing the finished appearance of projects. PR: I.E. 482.

492. **Work Study Seminar** Four hours

Concepts of the construction and analysis of graphs, charts, and tables. Practical use of handbooks and industrial literature. Discussion of codes of ethics, employment opportunities, letters of application, interviews, and employment references. Engineering and progress reports on work experience.

493. **Work Experience Laboratory** Eight hours

On-the-job work experience in a cooperating industry. CR: I.E. 492.

JOURNALISM

(Division of Language and Literature)

240. **Reporting I** Three hours

Fundamentals of reporting; gathering, evaluating, and writing news; emphasis on general reporting and writing for specialized fields. Valuable as a vocational try-out and for making the student a better newspaper consumer. Teachers who will be sponsoring student publications should have this basic course or equivalent. Open to second semester freshmen and above. (3-hour lab. arranged)

270. **Communications in Society** (Mass Communication) Two hours

A course which reflects the current and important interests in public opinion and propaganda; the influence of old and new forms of communication on the social order; why and how people react to advertising, news, publicity, propaganda, and public relations efforts.

271. **The Newspaper and Society** Three hours

A study of the development of the newspaper's growth from an organ of a political party to the social instrument of today; present practices and principles of the press; the evolving code of ethics and influence of the newspaper; its competition with radio, television and facsimile.

280. **History of American Journalism** Three hours

Required area for journalism students. This is a study of the American press and its influence upon the nation; the development of today's communication media from the 17th century; and examination of the outstanding names in journalism; freedom of the press and its present day implications.

312. **Publication Problems** (High School Publications) Three hours

A practical course for teachers who may supervise a school newspaper, yearbook, or handbook; for those who may work on a company newspaper or house organ or in an advertising department; helpful to anyone charged with producing a publication. Problems of staff organization, training, finance, format, type headlines, etc. will be covered. (3-hour lab arranged)

320. **Principles of Advertising** Three hours

A survey course of the social, psychological, and some technical aspects of advertising. For business and journalism students.

330. **Advanced Reporting** Three hours

A grade of C or higher in Journalism 240. Advanced study of editing techniques with Columns and the daily newspaper editing rooms as laboratories. Actual writing and editing direct publications. (6-hour lab. per week)

334. **News Photography** Two hours

Required in journalism area or news-editorial and public relations. One lecture hour and one demonstration hour and two hour lab. Students learn to use basic camera and equipment, and learn to develop prints and enlarge. No laboratory fee charged to the course but each student will be required to purchase a photography kit containing film and photographic equipment. Chemicals will be provided by the department. (2-hour lab per week)

340. **Journalism Practice** Two hours

An arranged course providing practical experience on the college newspaper, yearbook, local daily newspaper, radio station, plus guided reading in the student's field of major interest; for example, writing for radio, newscasting, magazine article writing, newspaper business management, circulation promotion, public relations, advertising. PR: Journalism 240 or consent of instructor.

341. **Journalism Practice** Two hours

Continuation of Journalism 340.

343. **Copy Editing and Make-Up** Three hours

Required of Journalism students. Combination of lecture and laboratory demonstrations. The editing of news copy, headline writing, study of type faces and page make-up for all types of newspapers and magazines.

431. **Methods and Materials in Teaching Journalism** Two hours

Study and practice in the techniques of teaching journalism and advising school publications.

LIBRARY SCIENCE

(Division of Language and Literature)

200. **Reference and Bibliography** Three hours

A study of basic reference books, especially those useful in school libraries. Problems in evaluating and using reference books and bibliography making.

210. **Library Materials** Three hours

Selection of books and other materials for elementary and secondary school libraries.

302. **Cataloging and Classification** Three hours

An introduction to principles of cataloging and classifying many types of books used in school libraries. PR: 200

304. **Organization and Administration** Three hours

A study of organization and administration of the school library and its place in carrying out the objectives of the school program.

400. **Library Practice** Three hours

Individual work based on students previous experience and related to student teaching when possible. PR: 200, 210, 302, 304.

MATHEMATICS

(Department of Mathematics)

110. **Basic Mathematics** Three hours

An introduction to mathematical concepts underlying the traditional computational techniques. Recommended as preparation for Math 210 but not recommended as preparation for any other mathematics course. This course cannot be used as mathematics credit toward certification for teaching mathematics. Credit may be earned for either Math 110 or Math 111 but not both courses.

111. **Intermediate Algebra** Three hours

A course for students deficient in high school algebra. This course cannot be used as mathematics credit toward certification for teaching mathematics. Credit may be earned for either Math 111 or Math 110 but not both courses. PR: One unit of high school algegra.

112. **Intermediate Mathematics I** Three hours

An introductory course of integrated algebra, trigonometry, and related topics, for students who have not had an equivalent course in high school. This course cannot be used as mathematics credit toward certification for teaching mathematics.

115. **Intermediate Mathematics II** Four hours

An integrated course of the material traditionally offered in College Algebra and Trigonometry, and related topics. For students who have not completed an equivalent course in high school.

116. **Calculus I** Four hours

Integrated analytic geometry and calculus. PR: Math 115 or equivalent.

200. **Mathematical Logic** Three hours

Sentential and general theory of inference, theory of proof and definition, elementary intuitive set theory. PR: Math 115 and consent.

201. **Mathematical Logic** Three hours

A continuation of Math 200. PR: Math 200.

206. **Introduction to the Theory of Numbers** Three hours

PR: Math 116 or consent.

210. **Mathematics for Elementary Teachers** Three hours

This course is designed to meet the mathematics requirement for the certification of elementary school teachers. The course is devoted to the structure of the real number system and its sub-systems, as related to the teaching of mathematics in the elementary school. PR: 110 or 112 or higher.

215. **Calculus II** Four hours

A continuation of Math 116. PR: 116.

216. **Calculus III** Four hours

A continuation of Math 215. PR: 215.

335. **Probability and Statistics** Three hours

PR: Math 215 or consent.

336. **Probability and Statistics** Three hours

PR: Math 335.

342. **Numerical Analysis** Three hours

PR: Math 216 or consent.

361. **Abstract Algebra** Three hours

PR: Math 216 or consent.

362. **Linear Algebra** Three hours

PR: Math 216 or consent.

372. **Modern Geometry** Three hours

PR: Math 216 or consent.

373. **Projective Geometry** Three hours

PR: Consent.

391. **Introduction to Analysis** Three hours

PR: Math 216.

393. **Introduction to Foundations of Mathematics** Three hours

PR: 216 and consent.

400. **Seminar** One-Three hours

PR: Consent.

401. **Differential Equations** Three hours

PR: Math 216.

411. **Advanced Calculus** Three hours

PR: Math 216 and consent.

413. **Introduction to Complex Variables** Three hours

PR: Math 215.

431. **Methods and Materials in Teaching Mathematics** Two hours

MUSIC

(Division of Fine Arts)

103. **Organ I-VIII** One hour

One thirty minute lesson per week. The program of study will be fitted to the individual needs of the student. One hour of private practice per day is required. Acceptance of the student will be the prerogative of the instructor.

105. **Class Piano I-II** One hour

This course is designed for all students interested in beginning piano. This will be conducted as a class with each member being offered opportunity for participation.

107. **Piano I-VIII** One hour

One thirty minute lesson per week. See description under Music 103.

109E. **Beginning Theory** Two hours

This course is designed for beginning music students who need additional background in Theory. Credit for this class is also used as the theory requirement for elementary teachers with music as a minor specialization. This class may be omitted from a student's program on examination.

109. **Theory** Four hours

This course is designed to acquaint music majors and minors with the techniques of the 18th and 19th century styles of composition. The following elements are included: chord structure and progressions (harmony); application of these principles to the piano (keyboard); correlating the eye and ear (diction and sight singing); understanding of phrase structure (form and analysis). PR: 109E.

110. **Theory** Four hours

A continuation of 109. PR: 109.

139. **Class Voice** One hour

Course consists of a study of the fundamentals of voice production: breathing, reasonance, articulation and style.

141. **Voice I-VIII** One hour

Open to students who have sufficient musical background and vocal quality to merit individual instruction. The principles of proper vocal production are stressed with later emphasis upon solo repertoire in English, Italian, German and French.

167. **"Collegiates" I-VIII** One hour

A select touring choir. PR: Audition.

169. **Band I-VIII** One hour

Open to all students who can play an instrument needed to keep a balanced organization. The program of procedure is designed to present study of band literature and administration through participation. PR: Audition.

170. **Laboratory, Band and Orchestra** No Credit

Required of students taking music 211, 213, 215, 217. Open to all students upon instructor's acceptance. This course provides review experiences in playing instruments at the beginning and intermediate levels.

173. **College Chorus I-VIII** One hour

Open to all students who can sing a part. This course is designed to present a study of choral literature, and administration through participation. PR: tryout.

Individual Instruction in Band and Orchestral Instruments

The following courses numbered 177 through 203 are open to students with sufficient musical background to benefit from individual instruction in the techniques of playing band and orchestral instruments. One thirty-minute lesson per week. Acceptance of the student will be the prerogative of the instructor. One hour of private practice per day required.

177. **Percussion I-VIII** One hour

179. **Saxophone I-VIII** One hour

181. **Flute I-VIII** One hour

183. **Clarinet I-VIII** One hour

185. **Oboe I-VIII** One hour

187. **Bassoon I-VIII** One hour

189. **Trumpet or Cornet I-VIII** One hour

191. **Baritone Horn I-VIII** One hour

193. **French Horn I-VIII** One hour

195. **Trombone I-VIII** One hour

197. **Tuba I-VIII** One hour

200. **Violin I-VIII** One hour

201. **Viola I-VIII** One hour

202. **Cello I-VIII** One hour

203. **Bass Viol I-VIII** One hour

205. **Music Appreciation** Two hours

A general music course in appreciation required of all students. Music of composers of the classical, romantic, and modern periods are discussed, and compositions of these composers are heard through the medium of recordings.

206. **Music Appreciation for Majors** Three hours

The history and literature of music, with emphasis placed on listening to recordings of great music and the study of musical style and form of the leading composers of the Renaissance, Baroque, Vienna Classic, Romantic, and Modern periods, for the purpose of developing greater depth in the discrimination and appreciation of music. Recommended for students enrolled in a music teaching field, subject specialization, or major. This may be substituted for Music 205. Not open to students with credit for Music 205.

209. **Theory** Four hours

Continuation of Music 110. Emphasis is placed on modulation and the choral style of composition. PR: Music 110.

210. **Theory** Four hours

Continuation of Music 209 with the introduction of the contrapuntal style. PR: 209.

211. **String Class I, II** One hour

This course is open to all students with sufficient background in music. A working knowledge of string instruments is attained through class instruction.

213. **Brass Class I, II** One hour

This course is open to all students with sufficient background in music. A working knowledge of brass instruments is attained through class instruction.

215. **Woodwind Class I, II** One hour

This course is open to all students with sufficient background in music. A working knowledge of the instruments of the woodwind choir is attained through class instruction.

217. **Percussion Class I, II** One hour

Open to all students with sufficient background in music. A working knowledge of percussion instruments is attained through class instruction.

230. **Kindergarten-Primary Music** Two hours

A course designed to develop understanding of musical skills and activities as related to the teaching of music with particular attention to needs of children from 4 to 7 years old.

231. **Elementary Music I** Three hours

This course gives the student a background in theory, terminology of music, scale building, rhythm, use of syllables, numbers and letters in music reading, chord construction, and use of the keyboard and autoharp. Two lecture hours and one laboratory hour per week. Required of all elementary teachers.

232. **Elementary Music II** Three hours

This course includes materials, methods and procedures for carrying out the music program in the elementary grades one through six. PR: Music 231.

245. **Fundamentals of Conducting** Two hours

A course designed to teach and develop the basic skills of conducting. PR: 109.

247. **Stage Band I-VIII** One hour

Open to advanced instrumental students. PR: audition.

249. **Advanced Woodwind Instrumental Ensemble I-VIII** One hour

Open to advanced woodwind students. PR: audition.

275. **Advanced Brass Instrumental Ensemble I-VIII** One hour

Open to advanced instrumental students. Designed to give students an opportunity to participate in small ensembles. Groups meet on a regular weekly rehearsal schedule under faculty direction. PR: audition.

277. **Advanced Vocal Ensemble I-VIII (Madrigal Singers)** One hour

Open to advanced vocal students. Designed to give students experience in small ensemble participation. Groups meet on a regular rehearsal schedule under faculty direction. PR: audition.

309. **Orchestration** Two hours

Basic instrumentation and arranging for band and orchestra. PR: 210.

310. **Counterpoint** Two hours

A study of the style and technique involved in the writing of 16th century polyphonic music. PR: 210.

311. **Form and Analysis** Two hours

A study of form and the analysis of music as found in the literature from the 17th to the 20th century. PR: 209.

312. **Composition** Two hours

This course is designed to teach, through the study of various types of music. a basic and accepted approach to creative composition. PR: 209.

313. **History** Three hours

This course traces music from the early Greek through the Baroque periods, with emphasis on recognition of styles and composers. PR: 209.

314. **History** Three hours

A continuation of Music 313 covering the Classical and Romantic periods. PR: Music 313.

320. **Techniques of Keyboard Accompanying** One hour

A course designed to acquaint advanced students of piano and organ with the techniques involved in playing accompaniments for performing groups and soloists. Regularly scheduled laboratory experiences in playing accompaniments for vocal and instrumental soloists and ensembles will be provided. This course may be substituted for applied piano. PR: Permission of instructor.

429. **Instrumental Methods and Conducting** Three hours

This course includes advanced and practical application of instrumental conducting techniques, methods, administration and materials used in teaching instrumental music in the secondary schools. PR: 209 and 245.

430. **Choral Methods and Conducting** Three hours

This course includes advanced and practical application of choral conducting techniques, methods, administration, and materials used in teaching choral music in the secondary schools. PR: 209 and 245.

431. **Methods and Materials in Teaching Music** Two hours

This course deals with techniques, methods, and materials used in teaching and administering elementary and secondary general music classes.

432. **Choral Workshop** Two hours

This workshop course to be offered to upgrade choral instructor's teaching techniques and administration. The course will include experiences in conducting choral groups, interpretation, and participating in choral rehearsals and performances. The study of problems related to choral teaching and administration will be included.

433. **Instrumental Workshop** Two hours

This workshop course to be offered to upgrade instrumental teaching techniques and administration of instructors. The course will include experiences in conducting instrumental groups, interpretation, participating in instrumental rehearsals and performances, and the study of problems related to instrumental teaching and administration.

434. **Composition Workshop** Two hours

This course is designed to study the composition of choral and instrumental works. Experiences of hearing works performed by live groups will be provided.

440. **Senior Recital (See General Music Requirements)** One hour

All music majors are required to present a senior recital or its equivalent before the faculty jury or public.

NURSING

(Department of Nursing Education)

100. **Medical Science in Nursing** Two hours

Emphasis on anatomy and physiology related to clinical practice.

101. **Fundamentals of Nursing** Five hours

The study of nursing care common to all patients and the scientific principles underlying that care. Topics include: factors affecting health; nurses' role in relation to patients care; the use of problem-solving methods in planning care; development of basic interpersonnel and technical skills. (4 hrs. lec., 4 hrs. lab.)

103. **Medical-Surgical Nursing I** Eight hours

Study of the major health problems that affect all age groups. Emphasis is on the commonality of problems as they relate to nursing.

200. **Psychiatric Nursing** Six hours

Concerned primarily with the area of functional disorders with major emphasis on interpersonal relationships, group relationships, the impact of hospital cultural patterns on patient therapy, newer methods of treatment and the community aspects of the mental health problems. (Off campus summer session).

202. **Medical-Surgical Nursing II** Eight hours

Continuation of Medical-Surgical I.

204. **Trends in Nursing** Two hours

Concerned with the development of nursing as a profession and the rights and responsibilities of practioners within the profession.

205. **Maternal and Child Health Nursing** Eight hours

Family-centered approach to the care of the mother and child. Emphasis is on the normal maternity cycle, growth and development and the community agencies available for care to infants and children. Deviations from health is limited to conditions found only in the general area of maternity and in the pre-adolescent age group.

PHILOSOPHY

(Division of Social Science)

200. **Introduction to Philosophy** Three hours

A survey of the principal problems arising out of man's attempts to organize his experience and direct his existence.

300. **Logic** Three hours

An analysis and exposition of the requirements for justifiable deductive and inductive reasoning. The principles or rational argumentation and inference in scientific methods are emphasized.

325. **Ethics** Three hours

An historical study of the basis of judging human actions right and wrong, good and bad. The main classical positions are evaluated and the impact of contemporary knowledge upon the central problems of ethics will be discussed.

350. **Comparative Religion** Three hours

Description and analysis of the philosophical systems underlying the major non-Christian religions. Attention will be focused upon the historical and psychological development of religious beliefs.

PHYSICAL SCIENCE

(Division of Science)

201. **General Physical Science** Three hours

A survey of the subjects of mechanics, heat, sound, light and electricity.

202. **General Physical Science** Three hours

A survey of the elements of chemistry, geology, and astronomy.

412. **Science in the Elementary School** Two hours

This course is designed as "a study of modern practices and techniques in the teaching of science. Students are to be guided in developing instructional units in such areas as the earth and its atmosphere, conservation, living things (plants and animals), energy changes (machines, light, sound, electricity, and magnetism) and outer space." PR: Biol. 101, 102 and 6-8 hours in the physical sciences.

431. **Methods and Materials in Teaching Science** Two hours

PHYSICS

(Division of Science)

101. **Introduction to Physics** Four hours

A two-hour laboratory period each week supplements the three lecture-recitation periods. Elementary principles of mechanics, sound, and heat are studied in this course.

102. **Introduction to Physics** Four hours

A continuation of 101; includes a study of magnetism, electricity, light and atomic structure.

201. **Demonstrations in Physics** Two-Three hours

Effective use of everyday materials to illustrate physical phenomena, experience with a variety of lecture equipment, and practice in planning and executing demonstrations describe the nature of this course. It is designed to serve teachers in both the elementary and secondary schools. PR: Consent of the instructor is sufficient, but a course in one of the physical sciences is highly recommended.

202. **Astronomy** Three hours

A study of motion and physical features of planets, comets, and satellites; the solar system; the earth and its satellites; stars and stellar atmosphere; and space travel.

261. **Modern Physics for Teachers** Three hours

A review of current developments in modern physics. The emphasis is on content and import, rather than a rigorous mathematical approach.

262. **Modern Physics for Teachers** Three hours

A continuation of Physics 261.

310. **Electricity and Electronics** Four hours

This course includes static electricity, direct and alternating current theory and means of transforming electrical power. The theory of the vacuum tube and electronics is introduced. Four hours laboratory and two hours lecture each week is required.

320. **Mechanics** Three hours

A course in mechanics applied to the study of particles and objects in space with the general principles of astronomy and the information of rotating system in the universe. General theories of the universe and experimental facts will be presented in an elementary manner. PR: Math 215.

321. **Mechanics** Three hours

A continuation of 320.

340. **Special Problems** Two-Three hours

Individual studies by advanced students of problems of special interest in the field of physics. PR: Physics 101, 102, Math 215.

420. **Introduction to Atomic Physics** Three hours

This course deals with the study of charged particles, ionization, and conduction of electricity through gases, electromagnetic radiation, and the theory of atomic structure.

421. **Introduction to Atomic Physics** Three hours

A continuation of 420.

POLITICAL SCIENCE

(Division of Social Science)

103. **American Government** Three hours

A survey of the American political system dealing with the form and function of the American federal system.

200. **Introduction to Political Science** Three hours

A study of the fundamentals of politics and key issues; the concept of the state and its agent, government; types of political authority; the scope of govermental activities; the problem of world order. PR: 103.

201. **Principles of International Relations** Three hours

A study designed to acquaint the student with the theory and practice of international relations. PR: 103.

205. **State and Local Government** Three hours

A study of the structure and function of American state and local governments. PR: 103.

303. **Political Parties** Three hours

A study of the origins, growth, and development of the American political party. PR: 103.

304. **American Constitutional Government** Three hours

A study of the constitutional development of the American Federal System.

305. **American Political Theory** Three hours

A study of the political literature which has given expression to the ideas of individual liberty enjoyed by American citizens. PR: 103.

310. **Recent Political Theory** Three hours

An analysis of the development and theoretical foundations of three major ideologies of the nineteenth and twentieth centuries: Communism, Fascism, and Democracy. PR: 103 and consent.

350. **International Organization** Three hours

A study of the structure and functions of international institutions and legal processes involved in the effort to maintain peace and security in the world. PR: 103 and consent.

406. **International Problems** Three hours

The foreign policies of the nations and the machinery established and functioning for the peaceful adjustments of international differences. PR: 103 and consent of instructor.

410. **Problems in American Government** Three hours

A study of current problems affecting the structure and function of American national government. PR: Political Science 103 and consent of instructor.

PSYCHOLOGY

(Division of Social Science)

103. **General Psychology** Three hours

An elementary introduction to the viewpoint, methods and principles of the science behavior.

250. **Experimental Psychology** Three hours

An introduction of procedures of experimental research, including principal topics of investigation, their representative experimental designs and laboratory techniques. Two hours lecture, two hours laboratory weekly. PR: Psychology 103.

275. **History of Psychology** Three hours

Traces the development of the science of psychology from its origins in philosophy, physiology, and medicine to the modern era. PR: Psychology 103.

300. **Psychology of Personal Adjustment** Three hours

A basic course in the analysis of human behavior. Special emphasis is given to the mechanisms of adjustment and the development of a systematic adjustment theory. PR: Psychology 103.

325. **Abnormal Psychology** Three hours

A survey of major forms of disordered behavior as defined by current psychiatric and psychological thinking.

350. **Statistics** Three hours

Elementary statistical description and analysis as employed particularly in the behavioral sciences.

360. **Psychology of Learning** Three hours

A survey of experimental data in the area of learning. Special emphasis given to contemporary learning theories. PR: Psychology 103.

375. **Physiological Psychology** Three hours

Discussion of research on physiological mechanisms in behavior. Principal concern will be with central nervous functions. PR: Psychology 103.

400. **Psychometrics** Three hours

General theory of measurement as involved in various areas of psychology such as psychological tests, attitude scales, psychophysics, and quantified behavior theory. PR: Psychology 350.

410. **Psychology of Personality** Three hours

Critical consideration of the major theories of personality, including Freudian, neo-Freudian, learning theory, trait theory. The basis of personality theory development will also be emphasized. PR: Psychology 103 and 300 or Consent.

425. **Clinical Psychology** Three hours

Consideration of theory and evidence dealing with various topics of clinical application such as personality theory, theory of behavior disorders, techniques of diagnosis and therapy. PR: Psychology 400 or consent.

460. **Seminar** Three hours

Discussion of specific research topics as reported in contemporary literature. Each student will complete an individual research project. PR: consent of instructor.

475. **Directed Readings** Three hours

Intensive study of topic selected by the student and instructor.

Not a regularly scheduled course, it is designed to meet special needs and interests of the student. PR: Consent of instructor.

SECRETARIAL STUDIES

(Division of Commerce)

101. **Beginning Typewriting** Two hours

A beginning course in the operational fundamentals of the typewriter. This course includes basic machine operations, development of speed and control, vertical and horizontal centering, simple tabulation, memorandums, personal business letters, announcements, simple manuscripts, rough drafts and proofreaders marks. No credit by examination.

102. **Intermediate Typewriting** Two hours

PR: S. S. 101 or Department Placement Test. This course includes the development of speed, control, and sustained typing, business letters, envelopes, tabulated reports, manuscripts, changing of typewriter ribbons, and simple business forms. No credit by examination.

201. **Beginning Shorthand** Four hours

Beginning course in shorthand. Introduction of theory and brief forms of Gregg Diamond Jubilee Shorthand. Emphasis is on reading and writing of shorthand at 60 words per minute. Spelling, punctuation, and sentence structure are stressed. No credit by examination.

202. **Beginning Shorthand** Four hours

PR: 201 or Department Placement Test. Continuation of S. S. 201. Emphasis is on the writing of shorthand from dictation at a minimum of 80 words per minute. Spelling, punctuation, and sentence structure are stressed.

204. **Secretarial Accounting** Three hours

Designed to meet the needs of the terminal secretarial student. Trains in the fundamental accounting procedures that will be encountered by the secretary. It develops the understanding and interpretation of accounting principles. Cannot substitute for Business 201 or Business 202.

211. **Advanced Typewriting** Two hours

PR: 102. An advanced course in electric typewriting adapted to office procedures. This course includes the typing of telegrams, cards, statistical reports, tabulation, business letters with tabulated data, invoices, requisitions, typing of special reports, legal documents, changing the typewriter ribbon, artyping, office style, and sustained typing. No credit by examination.

251. **Business Correspondence** Two hours

PR: S. S. 102, English 104, 108. An analysis of the physical mechanics of the business letter. This course includes the writing of effective business letters in sales, collection letters, letters of application, telegrams, cablegrams, business reports, and post office services. No credit by examination.

301. **Advanced Shorthand and Transcription** Four hours

PR: S. S. 202 or 2 years of high school shorthand and departmental placement test. Emphasis is on the writing of shorthand at a minimum of 100 words per minute and producing mailable transcripts. Spelling, punctuation, and sentence structure are stressed. A complete review of brief forms and derivatives is included. Sustained dictation and transcription of a departmental business vocabulary is emphasized. No credit by examination.

302. **Advanced Shorthand and Transcription** Four hours

PR: S. S. 301. A continuation of S. S. 301. Emphasis is on dictation at a minimum of 120 words per minute and producing mailable transcripts. Sustained dictation and transcription of a vocational vocabulary is emphasized. No credit by examination.

303. **Principles and Practices of Filing** Two hours

Designed to provide a foundation in the latest methods and systems of retrieving information and the management of a company-wide records system. Actual practice is provided in alphabetic, subject, numeric, and geographic filing systems.

311. **Office Machines** Two hours

An orientation and practice course for students in the Business or Secretarial Studies area. Approximately two-thirds of the course time is given to practice with adding-listing, rotary, electronic calculators, bookkeeping machines, spirit and ink process duplicating machines and transcribing equipment. No credit by examination.

312. **Card Punching** Two hours

Primarily a course for skill training in the operation of electronic card-punching equipment. The course will also develop an understanding of unit record equipment, including sorting, collating, and accounting machines. The intensive training will provide proficiency in card punch machine operation. No credit by examination.

314. **Dictation and Transcription** Two hours

A course which combines the skills of shorthand, typewriting, and English required in the process of producing typewritten transcripts. Practice is given on materials designed to fuse these primary skills in order to develop vocational stenographic competency. Transcription from dictabelts is also included.

351. **Secretarial Office Practice** Two hours

This course includes all phases of the office routine and procedures. Class lecture is supplemented by a field trip, films, and guest speakers from local and state industries.

351L **Secretarial Office Practice Lab.** One hour

A practical course with actual experience in an office. A total of

90 hours in supervised office work is required for credit in the course. Previous work experience cannot fulfill this requirement. Students enrolled in this course should limit their class load for this semester to 16 hours. Two-year students should plan to take this course their last semester in College; the A. B. and B. S. majors should plan to take this course their Junior year. PR: S. S. 211, 301, 351, 2.0 average in major, minor, and overall i.e. for all work attempted.

SOCIOLOGY

(Division of Social Science)

110. **Introductory Sociology** Three hours

A study of the structure, function, and change in culture and society.

200. **Social Problems** Three hours

A study of representative social dislocations in important areas of human relationships. PR: Soc. 110.

Sociology 200 is prerequisite for all sociology courses numbered 300 or above.

301. **Anthropology** Three hours

A study of human biological and social origins, including human prehistory, race, the origin and nature of culture, social organization among preliterate peoples, cultural diffusion, and culture change. PR: Soc. 110.

305. **Social Psychology** Three hours

A study of social structure and social interaction. Techniques of leadership and control will receive special study. PR: Soc. 110. Psychology 103 or Educ. 302 and 303 recommended.

310. **Marriage and the Family** Three hours

A study of the background, organization, and function of the American family. Courtship, marriage, marriage adjustment, parenthood, family disorganization and the effect of social change upon the family will be studied. PR: Soc. 110. Not open to students with credit in Home Ec. 310.

320. **Rural Sociology** Three hours

A study of the characteristics of rural society including its culture, social relationships, and institutions. Rural society is studied in comparison with urban society as a part of American Society. PR: Soc. 110, 200.

330. **Urban Sociology** Three hours

A study of the characteristics of urban society including its culture, social relationships and institutions. Urban society is studied in comparison with rural society as a part of the American Society. PR: Soc. 110, 200.

340. **Juvenile Delinquency** Three hours

A study of what society defines as delinquent behavior and of the young people designated as delinquents. Emphasis will be placed on the causes of delinquency and on the various techniques and methods of prevention, treatment, and rehabilitation. PR: Soc. 110, 200.

360. **The Field of Social Work** Three hours

a study of the history and development of social work with special emphasis upon modern social work agencies and the services which they render. Various types of social work will be considered from the standpoint of the prospective social worker. PR: Soc. 110, 200, Psych. 103.

370. **Social Welfare as a Social Institution** Three hours

The examination of the inter-relationship among various social welfare programs, policy issues, and the rate of social work in terms of the American social welfare system. PR: 360. This course may not be used for the social studies teaching field.

380. **Afro-American History & Culture** Three hours

Same as History 380.

410. **Industrial Sociology** Three hours

A study of the organization, structure, function and social relationship found in the various areas of industrial activity in American society. The area of industrial relations will receive special emphasis. PR: Soc. 110.

430. **Community Organization** Three hours

A study of the structure and function of the various social groupings found in the community. The course is oriented toward the development of community leadership talent. PR: Soc. 110, 200.

450. **Minority Groups** Three hours

A study of racial and cultural minority groups in the United States with special emphasis upon understanding the cause of their persistence and the reason for majority-minority antagonisms. A study of the techniques whereby prejudices are developed and reduced will be made. PR: Soc. 110, 200.

470. **Sociological Theory** Three hours

A study of the theoretical basis of modern sociological thought, institutions and organizations. PR: Consent of Instructor.

480. **Social Casework** Three hours

A study of the theory, philosophy, goals, and techniques of the social case worker and an examination of the literature pertaining thereof. PR: 370. This course may not be used for the social studies teaching field.

485. **Practicum** Three hours

An examination of the social welfare agency in its daily operation complete with practical observation and experience. PR: 480. This course may not be used for the social studies teaching field.

490. **Seminar: Sociological Literature** Three hours

A course designed to use original sources and publications not primarily used as texts. PR: Soc. 470 or consent of instructor.

499. **Seminar: Special Problems in Sociology** Three hours

Open only for juniors and seniors majoring in Sociology. Reading and research on subjects suited to the student's need. PR: Soc. 470 or consent of instructor.

SPEECH

(Department of Speech and Drama)

101. **Fundamentals of Speech** Three hours

This course includes the elementary phases of oral language training. Analysis of contemporary speeches, listening skills, short speeches, enunciation, and pronunciation.

105. **Voice and Diction** Three hours

Theory and practice of speech science to provide basic information prerequisite to further speech study and to improve the skills of the speaking voice. Required of speech majors, minors; open to music students.

107. **Speech Improvement** Two hours

Designed for students who wish to improve the quality of their speaking voices. Training in pronunciation, enunciation, and voice production in order to develop standard speech. Therapy for major speech defects is not administered. May not be substituted for Speech 105.

120. **Theatre Appreciation** Two hours

Study of drama as it occurs on stage, in movies, and in radio and television in order to form a critical appreciation of its purposes and effects.

151. **Play Production** Two hours

Play production methods for the educational theatre. Theory and practical experience in the mounting of plays for public performance. Required of all speech majors and minors.

152. **Theatre Workshop I, IV** One-Two hours

Directed, practical experience in production of plays for public performance. Scenery design and construction, lighting, properties, costuming, etc. PR: Speech 151 or permission of instructor.

210. **Advanced Spoken English** Three hours

Development of ability to communicate in clear, effective, correct

English; with emphasis on preparation and delivery of representative types of speech. Special attention given to speech problems of teachers and their students. PR: English 104, 108. Required of all A. B. in Education students.

221. **Oral Interpretation** Two hours

A study of the principles involved in the effective transmission of thoughts from the printed page to an audience. Required of all speech majors and minors.

222. **Advanced Oral Interpretation** Two hours

A study of special problems of interpretation in the areas of dramatic literature, prose, and poetry. PR: 221 or consent of instructor.

237. **Effective Speaking** Two hours

Designed to give advanced speech students training in preparation and presentation of persuasive speeches. Required of all speech majors and minors. PR: 101 or 210 or consent of instructor.

240. **Group Discussion** Three hours

Study and practice of principles, types, and methods of group discussion as it relates to committees, policy-making groups, conferences, public forums, and classroom teaching. PR: Speech 101, 210, or consent of instructor.

243. **Debate** Two hours

Theory and practice of argumentation and debate. Required of all speech majors and minors. PR: 237 or consent of instructor.

244. **Intercollegiate Debate** One-Four hours

Training for and participation in individual debates with teams from other colleges and universities and tournament debating throughout the Eastern United States.

245. **Oratory** One-Two hours

Study of origin, historical influences, and changing aims of oratory. Practice in development of memorized speeches for competition. Required of all speech majors and minors.

251. **Acting** Two hours

Theories and methods of acting for the stage. Practical acting experience in student and faculty directed scenes and one-acts. Required of A. B. in Education Speech majors.

252. **Acting Workshop** One-Four hours

Practical experience acting in school productions. PR: Consent of instructor.

260. **Theatre History** Three hours

Historical examination of the major theatrical periods through a study of the important playwrights, theorists, and other practitioners of each era.

301. **Make-up** One hour

Fundamentals of theory and technique of applying theatrical make-up, including laboratory and practical experience.

301L **Advanced Make-up** One hour

Application of theatrical make-up for public performances.

321. **Summer Theatre: Rehearsal and Performance** One-Three hours

Systematic rehearsal and public performance with the Masquers Town and Gown Summer Theatre. Designed for students who desire stage training and experience. PR: Auditions.

322. **Summer Theatre: Production and Management** One-Three hours

Experience in every phase of theatrical production and some phases of theatre management. Experience includes set designing and constructing, lighting, constuming, make-up, box office, house managing, and publicity. PR: Consent of instructor.

330. **Fundamentals of Radio and Television** Two hours

A familiarization course in modern studio practice, use of broadcasting and recording equipment, and preparation or programs, with some work in radio and television speech and announcing. Required of all speech majors and minors.

331. **Children's Drama** Two hours

The theory and observation of the arts of creative drama for children and children's theatre.

331L. **Children's Drama Laboratory** One hour

Practical experience in the arts of creative drama for children and children's theatre. PR: Speech 331 or permission of instructor.

334. **Radio and Television Production** Two hours

Production of and participation in actual broadcasts. A study of the techniques used in programming, directing, continuity writing, and music and sound effects. PR: 2 hours of speech or permission of instructor.

334L. **Radio and Television Production Laboratory** One hour

Continuation of Speech 334 with extensive studio practice.

336. **Play Directing** Two hours

Principles and techniques of play directing. Special attention given to directing problems in educational theatre; play selection, budgeting, casting, mounting and staging, public relations, and coordination of crafts. Required of all speech majors and minors. PR: 151, 251, and consent of instructor.

336L. **Play Directing Laboratory** One hour

Direction and public presentation of a one-act play. Required of all speech majors and minors. PR: Speech 336 and consent of instructor.

401. **Extemporaneous Speaking** One hour

Study of origin, aim and development of extemporaneous speeches. Preparation for competition. PR: Speech 101 or 210, 237, or consent of instructor.

430. **Speech Correction** Three hours

An introduction to the field of speech therapy. Emphasis placed on indentification of all speech defects, their diagnoses, and preventive and remedial techniques. Required of all speech majors and minors. PR: 105 or consent of instructor.

431. **Methods and Materials in Teaching Speech.** Two hours

Philosophy, methods and materials of teaching speech in the secondary schools.

440. **Speech and Dramatics Seminar** One hour

Directed study in any of the five fields of speech: public address, speech correction, interpretation, theatre, or radio-television. Designed for Junior and Senior Speech majors and minors. PR: Permission of instructor.

CAMPUS ACTIVITIES

STUDENT GOVERNMENT ORGANIZATIONS

The Student Government Organization is composed of all students regularly enrolled in Fairmont State College. All of its officers are students and all business is conducted by them. Through this organization student programs and many other activities are undertaken. A student activity fee is collected from all students. This fee covers the cost of student activities and entitles the student to attend all athletic contests, major dramatic productions, and other special programs.

STUDENT COUNCIL

The Student Council is the executive board of the student government organization. It consists of five student body officers, all class presidents and vice presidents, one member elected by the interfraternity-panhellenic council, one member elected by the honorary and professional organizations, one man and one woman elected by the non-fraternity group, one woman elected by the Associated Women Students, and one faculty advisor appointed by the President of the College.

One of the principal assignments of the Student Council is to meet annually to determine the allocation of the student activity funds among the various campus activities and organizations. The budgets prepared are then published so that all students may know for what purposes their fees are being used.

STUDENT AND FACULTY SOCIAL CABINET

The Student-Faculty Social Cabinet is composed of representatives of students and faculty under the chairmanship of the vice president of the Student Council. The campus social program for the school year is arranged through this cabinet.

INTERFRATERNITY-PANHELLENIC COUNCIL

The Interfraternity-Panhellenic Council is an organization of all Greek letter social organizations. It governs the joint activities of the social fraternities and sororities.

CLASS ORGANIZATIONS

Each academic class has assigned activities and operates through its officers and the student government.

CLUBS AND HONOR SOCIETIES

Fairmont State College students have organized a number of clubs and honorary organizations for the promotion of interest in various subject matter fields, for the recognition of outstanding achievement in various campus activities, and for general social purposes. A list of the currently active organizations of this character follows:

Clubs

Academy of Science
Future Teachers of America
Home Economics Club
Independents
Industrial Arts Club
Letterman's Club
Masquers (Drama)
Music Educators National Conference
Newman Center
Phi Epsilon Chi (Women's P.E. Club)
Pi Kappa Phi (Language)
Student National State Education Association
Wesley Foundation
Young Democrats
Young Republicans
Art Club

Honorary and Recognition Societies

Alpha Alpha Alpha—Business
Alpha Phi Gamma—Journalism
Alpha Psi Omega—Dramatics
Beta Beta Beta—Biology
Blazers—Senior Women's Honorary
Epsilon Pi Tau—Industrial Arts Honorary
Kappa Delta Pi-Education
Kappa Gamma—Forensics
Alpha Lambda Sigma—Athletics
Lambda Delta Lambda—Physical Science
Pi Alpha Phi—Language
Pyramid Society—Men's Honorary
Sigma Tau Delta—English Honorary
Flames—Junior Women's Honorary
Kappa Pi—Art Honorary

SOCIAL ORGANIZATIONS

Fairmont State College students have organized and maintained a number of social fraternities and sororities. These organizations provide a medium for social activities and social training. They are regulated by the Men's and Women's Panhellenic Associations, which strive toward high standards of scholarship and leadership among the group and toward developing a good college spirit. These organizations are listed below:

Fraternities

Theta Xi (National)
Sigma Pi (National)
Sigma Tau Gamma (National)
Tau Beta Iota
Tau Kappa Epsilon (National)

Sororities

Alpha Xi Delta (National)
Delta Zeta (National)
Phi Mu (National)
Sigma Kappa (National)
Sigma Sigma Sigma (National)

RELIGIOUS INTERESTS

Fairmont State College maintains a close relationship with the religious organizations of the city. During Freshman Orientation ministers of local churches of all faiths are presented. Announcements of services and special programs are posted on a bulletin board in the administration building.

Organized groups on campus are The Newman Center for Roman Catholics, and The Wesley Foundation sponsored by the Methodist Church. Services of ministers are available to the campus at all times.

PUBLICATIONS

The Columns is the student newspaper published semi-monthly throughout the regular college year with the exception of examination and vacation periods. The Publications Board, representing students and faculty, approves the selection of staff members from a list presented to the Board by the faculty adviser. Consideration is given to those students who have done acceptable work in journalism or who have had practical experience on publications. **The Columns** is named for the eight stately columns at the front of the Administration Building. It is financed by student fees and advertising.

The Mound is published annually by the students. The administrative officers of the staff are approved by the Publication Board from a list presented to the Board by the faculty adviser. All phases of college life are depicted in the annual, largely by pictures. It was named from an historic spot on a former campus. It is financed by student fees and advertising.

The Student Handbook is compiled annually under the direction of the Student Council. It contains valuable information about Fairmont State College and its varied student activities. It is of real service to new students.

Bulletins are posted on the bulletin boards prominently located in each building. These bulletins carry announcements of all student activities. Material for these should be left in Room 233A by noon Thursday. Bulletins are posted Friday morning for the following week. Students should consult the Bulletin Boards daily for important announcements.

MUSIC ORGANIZATIONS

The Fairmont State College Marching and Concert Band is a uniformed band which presents concerts in Fairmont and other communities. This organization is open to both men and women.

The musical organizations of Fairmont State College—the Chorus and the Collegiates—provide opportunities for students interested in group singing. These groups present programs at the College assemblies, in neighboring communities, and on the radio. They also give annual public concerts. The Chorus is open to all students, but the "Collegiates" are composed of selected members of the College chorus. Operas are produced annually.

Students may participate in college ensemble programs including the Stage Band and String, Brass, Woodwind, and Vocal Advanced Ensembles.

PUBLIC SPEAKING

A stimulating and vital program in public speaking and oratory is encouraged both on a curricular and extra-curricular basis at Fairmont State College. Students make frequent appearances before churches and clubs, and speak on radio programs. An annual competition is held for the M. M. Neely Prize. (See contests.)

INTERCOLLEGIATE DEBATING—THE DEBATE CLUB

Fairmont State College provides a very active program in debating. The Debate Club gives interested students training and experience in the art of debating and several teams are organized each year to meet the teams of other colleges and universities of the United States and Canada. Fairmont teams annually participate in at least ten major debate tournaments, several contract debates at home and away, and attend the West Virginia Intercollegiate Speech Festival at Jackson's Mill. Participation in debate is open to all students.

DRAMA

Fairmont's drama department has received national recognition, for here was organized in 1925 the national honorary drama fraternity Alpha Psi Omega. Also Delta Psi Omega, junior college drama honorary, and the Thespians, high school drama society, had their inception at Fairmont State College.

Each year the Masquers, the student drama organization, offers a full season of theatrical productions of varied style and period to student-community audiences. Also several student and faculty directed one-acts are presented throughout the season and are open to the public. Acting and production work for these plays is open to the student body and memberships in Masquers and Alpha Psi Omega are earned through participation in these theatre activities.

SUMMER THEATRE

During the summer term the Masquers Town and Gown Summer Theatre presents four major productions. Students enrolled in Summer Theatre (Speech 321-322) work with interested and experienced members of the community in order to bring a program of light summer theatre fare to Northern West Virginia theatre-goers.

ASSEMBLIES AND SPECIAL FEATURED PROGRAMS

A limited number of general assemblies are held each semester. The schedule is flexible insofar as the hour is needed for the meetings. The purpose of the assemblies is to provide programs of an educational or entertainment nature and to celebrate special occasions. The general chairman is a faculty member who acts as expediter of the year's program schedule. These programs, which are free to all students and faculty members, are financed by allotments from the student activity fund.

CONTESTS

The Frank C. Haymond Constitutional Essay Contest

In order to encourage a greater interest in and appreciation of the United State Constitution, Judge Frank C. Haymond has established annual awards of $50, $25, and $10 for the three best papers submitted on the general theme "The Constitution," by regularly enrolled students. Papers are required to be from one thousand to thirty five hundred words in length and are due on or before April 15 each year. Interested students should apply to the chairman of the Division of Social Science.

The M. M. Neely Oration Contest

For many years the late Senator M. M. Neely offered an award of $200 dollars for excellence in oratory. It is hoped that this contest, open to all regularly enrolled students of the College, may be continued. A faculty committee is in charge of this contest. Interested students should apply to the chairman of the Speech and Dramatics Department.

COLLEGE RADIO PROGRAM

"Campus Highlights," a weekly radio program, is produced by the radio department of Fairmont State College. It has been a regular feature of Station WMMN since 1929. These programs are for the most part student productions Any student at Fairmont State College may audition for radio work. In the spring of 1969, "Town and Campus", a second radio program was initiated. This is a weekly boradcast of news and interviews of current interest to the general public. In addition to the radio programs the college presents a number of television shows each year through the facilities of stations WBOY, Clarksburg, and WDTV, Weston.

INTRAMURAL SPORTS

A regular program of intramural sports is sponsored for the benefit of all students. Teams, contests, and various activities are organized for competitive play among the various groups and organizations. The pool is open for intramural and recreational swimming at certain times. Such facilities as the conditioning room are open for individual and group participation. This is under the supervision of staff members who direct the overall program. Individual participation with selected equipment is in the offering for those interested and concerned with their own development, and not with team participation.

The intramural program includes the following activities: speedball, touch football, tennis, volleyball, basketball, relays, softball, horseshoes, outdoor track, badminton, swimming, archery and foul throwing.

INTERCOLLEGIATE SPORTS

Fairmont State College sponsors an intercollegiate athletic program in football, basketball, baseball, cross country, golf, tennis, soccer, swimming, track, and wrestling. There are fine indoor and outdoor facilities and equipment for physical education and recreation. Every young man in college is free to participate in any one or more of the intercollegiate sports and in all recreational activities.

ATHLETIC POLICY

The program of intercollegiate sports at Fairmont State College is supervised by a director of athletics. He is assisted in the planning of the program by an athletic committee of the general faculty.

The general objectives of the intercollegiate sports program at Fairmont State College are to teach young men the values of sportsmanship, good physical conditioning, and the disciplinary and social values of organized team play. Specific values include the training afforded prospective coaches and physical education instructors through participation, and the possible acquisition, to some extent, of experiences and skills which may furnish recreational outlets following graduation.

In pursuance of the policies recommended by the North Central Association, the following minimum standards governing intercollegiate athletics are maintained:

1. The ultimate responsibility for the conduct of the athletic program rests with the President.
2. The members of the coaching staff are regular members of the faculty and have the same professional status, qualifications, salaries, and tenure as other faculty members.
3. Students participating in athletics are admitted by the Director of Admissions on the same basis as other students. Athletes are required to maintain the same academic standards as non-athletes.
4. The award of scholarships, student loans, and student employment to an athlete is made through the same agency of the College and on the same basis as grants of aid to all other students. All employed students are required to give full and honest work for pay received.
5. All athletic funds are handled by the Business Manager of the College. An audit of the receipts and disbursements of these funds is made

annually by the auditors of the West Virginia Tax Commissioner for the benefit of the West Virginia Board of Regents and other interested parties.

6. The College does not bring prospective athletes to the campus for tryouts, nor does it pay the expenses involved in college visitations by such persons.
7. An effort is made to compete only with colleges having similar educational and athletic policies.
8. Fairmont State College is a member of the West Virginia Intercollegiate Athletic Conference, and athletic participation is regulated and controlled by the eligibility rules of the Conference. Copies of these rules are on file in the Office of the Director of Athletics.

AWARDS

At Recognition Day exercises, held near the close of each college year, awards are granted to students for outstanding achievements in various campus activities. Among these awards are the following:

For outstanding achievements in scholarship, leadership, service, and character, gold keys are presented to the Four Outstanding Seniors, selected by a faculty-student committee; certificates to the seniors elected to Who's Who Among Students in American Colleges and Universities; American Legion Medals to a senior man and senior woman; MENC plaques presented to outstanding senior and freshman music majors.

Medals and other prizes are presented to outstanding students in business administration, science, secretarial practices; cash awards by the Fairmont Woman's Club to the best freshman writer, to the most worthy senior girl by the American Association of University Women's Club through their Edna Earl Lowe Memorial fund, the Louise Leonard Memorial award for best achievement in elementary education. The Blazers, senior women's honor society, announces at this time the names of the women of the junior class elected to the organization; and the Pyramid Society, men's honor society, names its new members and recognizes the outstanding freshman man of the year.

Athletic awards are usually made during special sessions at athletic contests or at the annual athletic banquet.

ALUMNI

The Alumni Association of Fairmont State College is the official organization of all graduates and former students of the "old" Fairmont State Normal School, Fairmont State Teachers College, and Fairmont State College.

The history of the Alumni Association goes back almost to the founding of the institution. A meeting was held on Commencement Day, June 27, 1873, at which time the twenty-nine graduates formed the Association.

Events of special interest to Alumni members include the Annual Homecoming celebration held in the fall semester. An Alumni Luncheon and a recrption for the graduates, the alumni, and friends of the college are events of Commencement Week. A Fairmont State College open house is held in connection with the annual meeting of the West Virginia Education Association.

Information concerning the Alumni Association may be had by writing to the Alumni Secretary, Fairmont State College, Fairmont, West Virginia.

SPECIAL SERVICES

THE SUMMER SESSION

Fairmont State College offers a ten-week summer session each summer. This session is made up of two terms of five weeks each. The requirements for admission and the character of the work offered are the same for the summer session as for the regular year.

All activities and facilities of the campus are available to students during the summer session. The student body is organized under its own leadership at the beginning of each session. A general program of social, recreational, and dramatic events is scheduled.

Special bulletins for the summer session are prepared for distribution. Those interested in working toward a degree, or in renewal of certificates, or in pre-profession courses, write for the Summer Bulletin. Address, Registrar, Fairmont State College, Fairmont, W. Va.

EVENING CLASSES

Evening classes are operated for the benefit of persons whose employment makes attendance in regular day classes impossible. These classes are considered as work done in residence.

EXTENSION CLASSES

Upon request, and when it is possible to provide suitable staff, Fairmont State College will offer off-campus courses to interested groups in the general area of the state it serves. Ordinarily, an enrollment of ten or more persons is necessary before any extension courses may be offered.

INTERNATIONAL EDUCATION

Fairmont State College is a member of the Regional Council for International Education. In addition to various services for faculty members, the Council makes available to students opportunities for a study year abroad. An Overseas Study Center was opened in Basel, Switzerland, in 1965, and an additional Center will open in Verona, Italy, in 1970. Additional Centers are planned.

FACULTY MEMBERS

AMOS, RAYMOND E., JR., (1965), *Associate Professor in Biology;* B.S., Fairmont State College; M.S., and Ph. D., West Virginia University.

ARCURE, MARTIN M., (1968), *Instructor in Physical Education;* A.B., Fairmont State College; M.S., West Virginia University.

ARNOLD, EUGENE R., (1967), *Professor in Education;* A.B., West Virginia State College; M. Ed., University of Cincinnati; D. Ed., University of Pittsburgh.

BAKER, EDNA, (1969), *Assistant Professor in English;* B.A., Centenary College; M.A., University of Arkansas.

BAKER, WILLIAM H., III, (1969), *Instructor in Commerce;* A.B., M.S., Kansas State College.

BATSON, DAVID C., SR., (1969), *Instructor in Industrial-Technical Education;* B.S., M.A., West Virginia University.

BOCK, EDWARD E., II, (1967), Director of Computer Center; *Assistant Professor in Commerce;* B.S.E.E., M.S.E.E., West Virginia University.

BRAND, PAULINE H., (1964), Assistant Librarian; *Assistant Professor in Library Science;* A.B., Fairmont State College; M.A., West Virginia University; M.L.S., University of Pittsburgh.

BROOKS, JAMES D., (1964), *Associate Professor in Art;* B.F.A., M.F.A., University of Iowa.

BROOKS, MONA, (1969), *Instructor in Speech;* B.A., M.A., Northeast Louisiana State College.

BROWN, WILLIAM A., (1968), *Instructor in Industrial-Technical* Education; A.B., Fairmont State College; M.A., West Virginia University.

BUNDY, JOSEPH N., (1965), *Assistant Professor in Physical Education;* B.S., Fairmont State College; M.A., West Virginia University.

BURGESS, WAYLAND D., JR., (1967), *Associate Professor in Education;* A.B., Morris Harvey College; M.A., Marshall University.

BURNS, DORIS W., (1966), *Assistant Professor in Commerce;* A.B., Marshall University; M.A., West Virginia University.

BURNS, RUTH A., (1965), *Assistant Professor in Commerce;* A.B., Fairmont State College; M.A., West Virginia University.

CAMPBELL, DONALD L., (1966), *Instructor of Physics;* B.S., West Liberty State College; M.S., West Virginia University. (On leave 1969-70).

CANNON, GEORGE E., (1962), Assistant Dean of Academic Affairs; *Associate Professor in Psychology;* B.A., Fairmont State College; M.A., West Virginia University.

CARUSO, A. THOMAS, (1969), *Assistant Professor in Music;* B.F.A., M.F.A., Carnegie Mellon University.

CAVANAUGH, JEAN C., (1967), *Professor in English;* B.A., Webster College; M.A., St. Louis University, Ph. D., Catholic University of America.

CHAPMAN, ERNEST E., (1967), *Associate Professor in Political Science;* B.S.F.S., Georgetown University; B.A., University of California at Berkeley; M.S. Ed., Ph. D., University of Southern California.

CHITWOOD, GARRETT, (1969), *Associate Professor in English;* B.S.E., Arkansas State College; M.A., University of Arkansas; Ph. D. Case Western Reserve University.

CLARKE, PAUL A., (1967), *Professor in Education;* B.S., Mt. St. Mary's College; M. Ed., University of Maryland; D. Ed., University of Maryland.

COLEMAN, JAMES E., (1968), *Associate Professor in Chemistry;* B.S., M.S., Louisiana State University; Ph. D., Ohio State University.

COLLINS, EDMUND E., (1949), *Professor in Physical Science;* A.B., M.A., West Virginia University; Ed. D., University of Pittsburgh.

COLLINS, RICHARD A., (1969), *Instructor in Sociology;* B.A., Fairmont State College; M.A., Wayne State University.

CONN, ROBERT H., (1966), *Assistant Professor in Foreign Languages;* B.A., M.A., West Virginia University.

CONRAD, HUNTER J., (1961), Director of Student Personnel and Placement; *Associate Professor in Education;* B.A., Glenville State College; M.A., West Virginia University.

COPELAND, MARGARET E., (1952), *Assistant Professor in English;* B.A., West Virginia University; M. Ed., University of Mississippi.

CORALLINO, ROBERT L., (1968), *Instructor in Commerce;* B.S., M.B.A., West Virginia University.

COX, HOMER W., (1959), *Business Manager;* B.S., Marshall University.

CREASY, WILLIAM D., (1954), *Professor in Biology;* B.S., West Virginia Institute of Technology; M.S, West Virginia University; Ph. D., University of Iowa.

DEBOER, GERRITT, (1969), *Assistant Professor in Physical Science;* B.S., Wisconsin State University; M.S., Arizona State University.

DILLON, ROXY DOWNS, (1961), Dean of Women; *Assistant Professor of Education;* B.A., Fairmont State College; B.S., M.A., West Virginia University.

DIXON, WILLIAM T., (1969), *Instructor in Art;* B.A., Glenville State College; M.A., Marshall University.

DODGE, MARGARET R., (1965), *Instructor in Nursing Education;* B.S., West Virginia University.

DOOLITTLE, MARGARET T., (1966), *Associate Professor in Education,* B.A., Glenville State College; M.A., Ed. D., West Virginia University.

DULAY, DAISY R., (1969), *Instructor in Commerce;* B.B.A., University of the East; M.B.A., University of Detroit.

DULING, GALEN F., (1964), Director of Teacher Education; *Associate Professor in Education;* B.A., Fairmont State College; M.A., West Virginia University.

DUMIRE, JANE E., (1966), *Assistant Professor in English;* B.A., Bethany College; M.S., West Virginia University.

DUNN, BILLY G., (1956), Director of Institutional Research; *Professor in Commerce;* B.S., Concord College; M.S., University of Kentucky; Ed. D., West Virginia University.

DUVALL, HAROLD S., (1952), *Associate Professor in Physical Education;* B.A., Fairmont State College; M.A., Columbia University.

ECKLES, LARRY E., JR., (1964), *Professor in Foreign Languages;* B.A., M.A., Western Reserve University; Ph. D., University of Paris.

EDWARDS, PAUL E., (1967), *Assistant Professor in History;* B.A., Willamette University; M.A., American University.

FEASTER, ESTON K., (1960), *President;* B.A., Fairmont State College; M.A., West Virginia University; Ed. D., The George Washington University.

FORD, ELEANOR M., (1946), *Associate Professor in Physics;* B.S., M.S., West Virginia University.

FOWLER, DWIGHT, (1956), Director, Division of Industrial-Technical Education; *Associate Professor in Industrial-Technical Education;* B.S., West Virginia Institute of Technology; M. Ed., Wayne State University.

FOX, RICHARD T., (1969), *Assistant Professor in Commerce;* B.S., Indiana University; M.A., Western Michigan University.

FRYE, NEIL, (1961), Dean of Men; *Assistant Professor in Education;* B.A., Fairmont State College; M.A., West Virginia University.

GEDKER, JOHN, (1968), *Assistant Professor in Industrial-Technical Education;* B.S., Moorhead State College; M.S., Mankato State College.

GILMER, JERIEL M., (1969), *Instructor in Music;* B.M., West Virginia University; M.M., Peabody Conservatory of Music.

GIVENS, RUTH J., (1965), *Assistant Professor in English;* B.A., Fairmont State College; M.A., West Virginia University.

GOULD, MARVIN B., (1968), *Assistant Professor in Commerce;* B.S., M.B.A., West Virginia University.

GRAGSON, WESLEY, (1957), *Associate Professor in Music;* B.S., Western Kentucky University; M.M., West Virginia University.

GRIMSLEY, BARBARA J., (1965), *Instructor in Nursing Education;* B.S., West Virginia University.

GULAS, WILLIAM M., (1965), *Assistant Professor in Mathematics;* M.S., West Virginia University.

HADLEY, HARRY J., (1969), *Associate Professor in Education;* B.S., Frostburg State College; M.A., Ed. D., West Virginia University.

HAINES, BILLY L., (1966), *Assistant Professor in History;* B.A., M.A., West Virginia University.

HALES, JAMES A., (1964), Director of Learning Resources Center; *Associate Professor in Industrial-Technical Education;* B.S., M.A., Kent State University.

HAMILTON, DONALD L., (1969), *Assistant Professor in Music;* B.A., Fairmont State College; M.M., West Virginia University.

HARMAN, GLENN A., (1968), *Instructor in Commerce;* A.A., Potomac State College; B.S., Fairmont State College; M.B.A., West Virginia University.

HERRING, LEWIS H., (1967), *Assistant Professor in Industrial-Technical Education;* B.S., Texas College of Arts and Industries; M. Ed., University of Texas.

HESS, MELVA C., (1951), Chairman, Department of Home Economics; *Assistant Professor in Home Economics;* B.A., Fairmont State College; M.S., West Virginia University.

HICKS, THOMAS B., (1969), *Instructor in Geography;* B.S., M.A., Eastern Michigan University.

JACKSON, BYRON K., (1968), Chairman, Division of Language and Literature; *Associate Professor in English;* B.S., Butler University; M.A., University of Miami; Ph. D., University of Florida.

JAYNES, EDGAR N., (1947), Chairman, Division of Commerce; *Professor in Commerce;* B.A., West Virginia University; M.B.A., Boston University.

JOHNSON, CYRIL W., (1947), *Associate Professor in Industrial-Technical Education;* B.S., Stout Institute; M.A., Ohio State University. (On leave 1969-70).

JONES, MARILYNN D., (1966), *Assistant Professor in English;* B.A., Fairmont State College; M.A., West Virginia University.

KEISTER, BETTY J., (1969), *Instructor in Nursing Education;* B.S., Alderson-Broaddus College.

KERR, JOSEPH R., (1966), *Assistant Professor in Sociology;* B.A., M.A., West Virginia University.

KERR, WILLIAM H., (1963), *Assistant Professor in Physical Education;* B.A., Fairmont State College; M.A., West Virginia University.

KING, JOHN W., (1968), *Assistant Professor in English;* B.A., St. John Vianney; B.S., College of Steubenville; M.A., University of Notre Dame.

LARKIN, MARGARET M., (1968), *Associate Professor in Mathematics;* B.A., College of St. Francis; M.A., University of Michigan.

LARUE, JAMES A., (1954), Chairman, Department of Mathematics; *Professor in Mathematics;* B.A., M.S., West Virginia University; Ph. D., University of Pittsburgh.

LAUGHLIN, WILLIAM M., JR., (1966), *Assistant Professor in Commerce;* B.A., College of William and Mary; M.A., University of Cincinnati.

LENGEL, RICHARD R., (1966), *Assistant Professor in History;* B.A., M.A., Sul Ross State College.

LEONARD, LOY W., (1956), *Assistant Professor in Industrial-Technical Education;* B.A., Fairmont State College; M.A., West Virginia University.

LONG, C. ALBERT, (1969), *Associate Professor in Physical Education;* B.A., M.A., West Virginia University; Ph. D., George Peabody College.

LOTH, HELEN S., (1968), *Instructor in French;* Lic., University of Paris; M.A., University of Toronto.

LOUGH, JO ANN, (1956), Chairman, Department of Speech and Dramatics; *Assistant Professor in Speech and Dramatics;* B.A., Fairmont State College; M.A., West Virginia University.

LUCAS, AILEEN, (1964), Assistant Librarian; *Assistant Professor in Library Science;* B.A., Marietta College; B.S.L.S., George Peabody College.

MANLY, CHARLES G., II, (1968), *Instructor in Speech and Dramatics;* B.A., Salem College; M.A., West Virginia University.

MASON, FRANCES L., (1962), *Assistant Professor in Physical Education;* B.A., Fairmont State College; M.S., West Virginia University.

MASSAY, GLENN F., (1965), Chairman, Division of Social Sciences; *Associate Professor in History;* B.S., California State College; M.A., West Virginia University.

MAYS, PATRICIA J., (1967), *Instructor in Nursing Education;* B.S., Alderson-Broaddus College.

MCCONNELL, DANIEL J., (1968), *Associate Professor in English;* B.A., Fordham College; M.A., University of Pennsylvania.

MCCUTCHEON, GARY L., (1968), Assistant Registrar and Director of Admissions; *Assistant Professor in Education;* B.A., Fairmont State College; M.A., West Virginia University.

MCLAUGHLIN, EARL G., (1967), *Associate Professor in Education;* B.A., Glenville State College; M.A., Ed. D., West Virginia University.

MICHNA, ADAM F., (1969), *Instructor in Biology;* B.A., Fairmont State College; M.A., West Virginia University.

MILAM, OTIS H., JR., (1953), Registrar and Director of Admissions; *Associate Professor in Education;* B.S., West Virginia University; M.A., Marshall University.

MILLER, GEORGE, (1967), *Assistant Professor in Music;* B.M., M.M., West Virginia University.

MILLER, MARTHA L., (1964), Director of Nursing Education; *Associate Professor in Nursing Education;* B.S.N., University of North Carolina; M.S., Case-Western Reserve University; Ed. D., Columbia University.

MOERK, ALICE A., (1969), *Assistant Professor in Music*; B.M., Carthage College; M.F.A., Ohio University.

MONINGER, DELBERT D., (1969) *Instructor in Industrial-Technical Education;* B.S., West Virginia University; M. Ed., Duquesne University.

MOODY, FRANCES, (1962), *Assistant Professor in Music;* B.A., Concord College; MA., Columbia University.

MORGAN, MARY ELINOR, (1965), *Assistant Professor in History;* B.A., M.A., West Virginia University.

MOROOSE, DONALD A., (1969), *Assistant Professor in Education;* B.A., Fairmont State College; M.A., West Virginia University.

MOROOSE, J. VINCENT, II, (1969), *Assistant Professor in Mathematics,* B.S., Fairmont State College; M.S., Ph. D., University of Pittsburgh.

MUKHERJEE, TRIDIB K., (1967), *Assistant Professor in Commerce;* B.A, University of Calcutta; M.S., University of Maryland; Ph. D., University of Maryland.

NAEGELE, ORVILLE D., (1960), *Assistant Professor in Geology;* B.S., M.S., University of Cincinnati.

NEPTUNE, MARLYN G., (1966), *Assistant Professor in Physical Education;* B.S., M.S., West Virginia University.

NEWCOME, MILDRED M., (1966), *Assistant Professor in English;* B.A., M.A., West Virginia University.

NUTTER, BARBARA F., (1964), *Instructor in English;* B.A., Fairmont State College; M.A., West Virginia University.

OVERKING, MICHAEL M., (1968), *Instructor in Speech and Dramatics;* B.A., Fairmont State College; M.A., Ohio University.

PARKINSON, ADA N., (1967), *Assistant Professor in Mathematics;* B.S., California State College; M.S., West Virginia University.

PATTERSON, VANCE D., (1969), *Instructor in Psychology;* B.S., Bethany College; M.A., West Virginia University.

PAUGH, PENELOPE S., (1968), *Instructor in Sociology;* B.A., Fairmont State College; M.A., West Virginia University.

PEARSE, RONALD D., (1968), *Instructor in Psychology;* B.A., Fairmont State College; M.A., West Virginia University.

PEASE, LOUIS M., (1968), *Professor in History;* B.A., Concord College; M.A., Miami University; Ph. D., West Virginia University.

PELL, PETER E., (1967), Assistant Director of Student Personnel; B.A., Fairmont State College; M.A., West Virginia University.

PETERS, HAROLD DEAN, (1968), *Instructor in History;* B.A., Marshall University; M.A., West Virginia University.

PETRO, FLORA R., (1964), *Assistant Professor in Commerce;* B.A., Fairmont State College; M.A., West Virginia University.

PHEASANT, JOHN L., (1969), *Instructor in Industrial-Technical Education;* B.S., B.A., Fairmont State College; M.A., West Virginia University.

PHILLIPS, WALTER F., (1966), *Assistant Professor in Industrial-Technical Education;* B.A., Fairmont State College; M.A., West Virginia University.

PHILLIPS, WILLIAM E., JR., (1966), *Associate Professor in Education;* B.A., Fairmont State College; M.A., West Virginia University.

POLLOCK, NORMAN, (1966), *Assistant Professor in Sociology;* B.A., Fairmont State College; M.A., West Virginia University.

POSTON, CHARLES D., *Assistant Professor in English;* B.A., Lamar State College; M.A., University of Texas; Ph. D., University of Oklahoma.

POTESTA, WOODROW A., (1948), *Professor in Commerce;* B.S., J.D., West Virginia University.

POWELL, RUTH ANN, (1966), Assistant Librarian; *Assistant Professor in Library Science;* B.A., Fairmont State College; M.L.S., Kent State University.

PRIESTER, HARRY G., (1967), *Assistant Professor in Education;* B.S., M.A., West Virginia University.

PRITCHETT, WILLIAM H., (1967), *Associate Professor in Biology;* B.S., Davidson College; Ph. D., University of Virginia.

PUDSELL, F. DAVID, (1968), *Instructor in History;* B.A., Tusculum College; Th. B., The Pittsburgh Theological Seminary; M.A., Indiana University.

PULSIFER, JACK R., (1965), *Associate Professor in History*; B.A., Lamar State College; M.A., Northwestern University.

RADCLIFF, JUDITH, (1969), *Instructor in Home Economics;* B.S., West Virginia University; M.S, University of Maryland.

RADER, STEPHEN M., (1969), *Instructor in English;* B.A., Marietta College; M.A., Ohio University.

RETTON, JOSEPH, JR., (1963), *Assistant Professor in Physical Education;* B.A., Fairmont State College; M.A., West Virginia University.

RHODES, LILLIAN L., (1951), *Associate Professor in Art;* B.S., Longwood College; M.A., Columbia University.

RICE, ALVA J., (1967), Assistant Business Manager; B.S., Salem College.

ROSIER, JOSEPHINE L., (1957), Librarian; *Associate Professor in Library Science;* B.A., West Virginia University; B.S.L.S., Columbia University.

RUOFF, WILLIAM D., (1966), Chairman, Division of Science; *Assistant Professor in Chemistry;* B.S., Albright College; M.S., Ph. D., University of Delaware.

RYAN, CARL W., (1967), *Associate Professor in History;* B.S, Southeast Missouri State College; M.A., Ph. D., St. Louis University.

RYAN, PATRICIA P., (1966), *Assistant Professor in Political Science;* B.A., American University at Cairo; M.A., West Virginia University.

SALVATI, JANET S., (1967), Assistant Librarian; *Instructor in Library Science;* B.A., Fairmont State College; M.L.S., University of Pittsburgh.

SANSALONE, FRANK V., (1962), *Instructor in Commerce;* B.S, Fairmont State College; J.D., West Virginia University.

SCHNEIDER, WILLIAM J., (1962), *Assistant Professor in Mathematics;* B.A., Fairmont State College; M.S., West Virginia University. (On Sabbatical, 1969-70).

SCHULTZ, DONALD K., (1969), *Instructor in Political Science;* B.A., Manchester College; M.A., Miami University (Ohio).

SCHULTZBANK, PHILIP, (1967), *Assistant Professor in Commerce;* B.S., Rider College; M.S., University of Tennessee.

SCHWER, DOROTHY, (1967), *Assistant Professor in Mathematics;* B.A, Frederick College; M.S., West Virginia University.

SHAFFER, WILLIAM D., (1966), *Assistant Professor in Psychology;* B.A., Fairmont State College; M.A., West Virginia University.

SHAN, ROBERT K., (1969), *Assistant Professor in Biology;* B.S., Taiwan Normal University; M.S., University of British Columbia; Ph. D., Indiana University.

SHEPHERD, JAMES E., (1969), *Instructor in Commerce;* B.S., M.B.A., West Virginia University.

SHERREN, DAVID C., (1968), *Assistant Professor in Industrial-Technical Education;* B.S., M.S., West Virginia University.

SIMONOF, JEAN E., (1967), Assistant Librarian; *Instructor in Library Science;* B.F.A., Moore College of Art; M.L.S., University of Pittsburgh.

SKAGGS, RUTH MARIE, (1967), *Assistant Professor in Home Economics;* B.S., M.S., West Virginia University.

SKINNER, WALDON, (1967), Chairman, Division of Health and Physical Education; *Professor in Physical Education;* B.A., B.S., Fairmont State College; M.S., West Virginia University; Ed. D., Columbia University.

SMITH, CARLTON B., (1968), *Assistant Professor in History;* B.A., Susguehanna University; M.A., Kent State University; Ph. D., University of Virginia.

SNOZEK, DOROTHY A., (1969), *Assistant Professor in Education;* B.S., California State College; M. Ed., Ohio University.

SNYDER, JAMES F., (1966), *Associate Professor in Industrial-Technical Education;* B.S., Kent State University; M.A., Peabody College for Teachers.

SNYDER, R. BARRY, (1967), *Instructor in Art;* B.A., Southwestern College at Memphis; M.F.A., University of Mississippi.

SNYDER, SUZANNE T., (1962), *Assistant Professor in Speech and Dramatics;* B.A., Fairmont State College; M.A., University of Pittsburgh.

STRAIGHT, EARL N., (1961), Director of Public Relations; *Associate Professor in Journalism;* B.A., Fairmont State College; M.A., West Virginia University.

SWANSON, CHARLES H., (1969), *Assistant Professor in Speech and Dramatics;* B.A., Macalester College; M.A., Colorado State College.

SWIGER, ELIZABETH D., (1956), *Professor in Chemistry;* B.S., M.S., Ph. D., West Virginia University.

TAGGART, LEO R., (1967), *Professor in Education;* B.S., M Ed., D. Ed., University of Pittsburgh.

TAYLOR, J. MARTIN, (1946), *Professor in Education;* B.A., Fairmont State College; M.A., West Virginia University; Ed. D., University of Colorado.

TEAHAN, JOHN MICHAEL, (1967), *Instructor in English;* B.A., Manhattan College; M.A., Columbia University.

THOMAS, LYNN H., (1969), *Instructor in English;* B.A., West Virginia University; M.A., West Virginia University.

TURLEY, GEORGE H., (1941), *Associate Professor in Speech and Dramatics;* B.A., Fairmont State College; M.A., West Virginia University.

TURNER, WILLIAM P., (1955), Dean of Academic Affairs; *Professor in History;* B.A., M.A., Ph. D., West Virginia University.

VANHORN, JOANNE, (1966), *Assistant Professor in History;* B.A., M.A., Marshall University.

VEASEY, MARILEE H., (1966), *Instructor in Speech and Dramatics;* B.A., Fairmont State College; M.A., West Virginia University.

WALLMAN, LAWRENCE A., (1929), *Associate Professor in Speech and Dramtics;* B.A., M.A., West Virginia University.

WANG, YU SAN, (1968), *Associate Professor in Political Science;* B.A., Concord College; M.A., University of Massachusetts; Ph. D., University of Pennsylvania.

WARD, JEAN E., (1969), *Assistant Professor in Physical Education;* B.S., M. Ed., Frostburg State College.

WATSON, BART, (1966), *Assistant Professor in English;* B.A., Fairmont State College; M.A., West Virginia University.

WEBER, DANIEL K., (1969), *Instructor in Speech and Dramatics;* B.A., Fairmont State College; M.A., West Virginia University.

WEEMS, CHARLES W., (1968), *Instructor in Biology;* B.S., M.A., East Tennessee State University.

WELLOCK, RICHARD P., (1960), Chairman, Division of Fine Arts; *Associate Professor in Music;* B.S., Southwest Missouri State College; M.A., Columbia University.

WHITE, CRAIG C., (1967), *Instructor in Sociology;* B.A., Bethany College; M.A., West Virginia University.

WHITEMAN, RICHARD, (1966), *Instructor in Industrial-Technical Education;* B.S., West Virginia University.

WILLARD, MARGARET, (1949), *Associate Professor in Education;* B.A., Fairmont State College; M.A., West Virginia University.

WILMOTH, STARK A., (1962), *Associate Professor in Education;* B.A., M.A., West Virginia University.

WILSON, WILFORD R., (1939), Director of Athletics; *Associate Professor of Physical Education;* B.A., Fairmont State College; M.A., Columbia University.

WISE, KENNETH G., (1948), *Professor in Industrial-Technical Education;* B.S., Ohio University; M.A., Ohio State University.

WOLFSHOHL, CLARENCE, (1969), *Assistant Professor in English;* B.A., Sul Ross State College; M.A., University of Idaho; Ph. D., University of New Mexico.

YAMBOR, PAULA H., (1967), *Instructor in English;* B.A., M.A., Western Kentucky University.

YEAGER, FREDERICK C., (1968), *Assistant Professor in Commerce;* B.S., West Liberty State College; M.B.A., West Virginia University.

YOST, PAUL V., (1960), Dean of Administrative Affairs; *Associate Professor in Education;* B.A., Shepherd College; M.A., West Virginia University.

YOUNG, JAMES R., (1967), *Assistant Professor in Geography;* B.S., Morris Harvey College; M.S., Marshall University.

ZIVKOVIC, PETER D., (1969), *Associate Professor in English;* B.S., M.A., University of Illinois.

RETIRED MEMBERS OF FACULTY

EVA DAY COMPTON, M.A., *Home Economics*

FRED B. EDGELL, Ph. D., *English*

WAYNE T. GRAY, Ph. D., *Sociology*

FRANK HALL, M.A., *Education*

GERTRUDE HALL, M.A., *Home Economics*

CLEO D. HAUGHT, M.S., *Chemistry*

CLIFFORD R. HOUSE, JR., M. Ed., *English*

MAUD M. HULL, M.A., *Education*

GEORGE HUNT, Ph. D., *Zoology*

ETHEL ICE, M.A., *German*

M. E. MCCARTY, M.A., *Mathematics*

PEARL S. MCCARTY, Ed. D., *English*

CLORA MARPLE, M.A., *Education*

RUTH ANN MUSICK, Ph. D., *English*

PAUL F. OPP, Ped. D., *English*

MARY B. PRICE, Music Supervisors Diploma, *Music*

HADDON RHODES, M.A., *English*

JEAN E. RICHMOND, M.A., *Home Economics*

FRANCIS SHREVE, Ph. D., *Education*

MARJORIE TATE, M.A., *English*

ELIZABETH TERRY, M.A., *French*

NELLE E. WALTERS, M.A., *Physical Education*

KENNETH G. WEIHE, Ph. D., *English*

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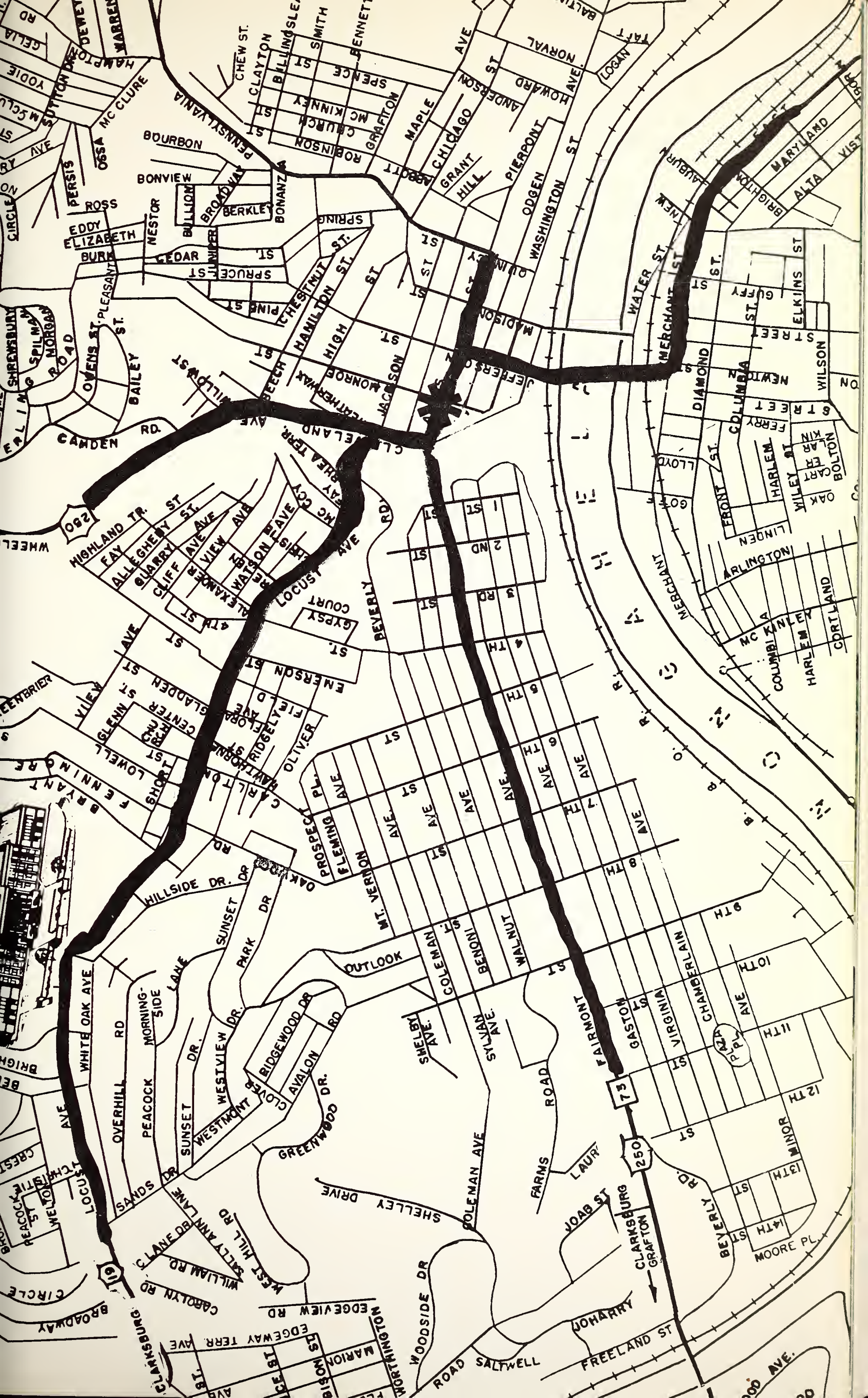
PENNSYLVANIA
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BURK
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CEDAR
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PINE ST
PLEASANT ST
JUNIPER
SHREWSBURY
SPILMAN
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BAILEY
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DIAMOND ST
COLUMBIA ST
NEWTON
GUFFY
ELKINS ST
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FERRY
LLOYD
GOFF
FRONT ST
HARLEM
WILEY ST
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ARLINGTON
MERCHANT
MC KINLEY
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MONONGAHELA R.
B. & O. R. R.
CLEVELAND AVE
SHEA TERR.
MC COY
FAY
ALLEGHENY ST
QUARRY
CLIFF AVE
RIVER VIEW AVE
ALEXANDER
WATSON AVE
LOCUST AVE
HIGHLAND TR.
4TH ST
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EMERSON ST
FIELD
FLORA AVE
RIDGELY
OLIVER
GLADDEN ST
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LOWELL
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GREENBRIER
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SHORT ST
HAWTHORNE
CARLTON
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MT. VERNON AVE
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SUNSET
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GASTON
VIRGINIA
CHAMBERLAIN
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MINOR
MOORE PL
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OVERHILL RD
MORNINGSIDE LANE
PEACOCK
SUNSET DR.
WESTVIEW DR.
WESTMONT
CLOVER
RIDGEWOOD DR
AVALON RD
GREENWOOD DR.
ROAD
FARMS
LAUREL
COLEMAN AVE
SHELLEY DRIVE
JOAB ST
SANDS DR
LOCUST AVE
CHRISTIE
WELTON
PEACOCK ST
CIRCLE
BROADWAY
ANN LANE
SALLY ANN LANE
CLANE DR
HILL RD
WEST
WILLIAM RD
CAROLYN RD
EDGEVIEW RD
EDGEWAY TERR. AVE
MARION
WORTHINGTON
WOODSIDE DR
SALTWELL ROAD
JOHARRY
FREELAND ST
CLARKSBURG
GRAFTON
WHEELING
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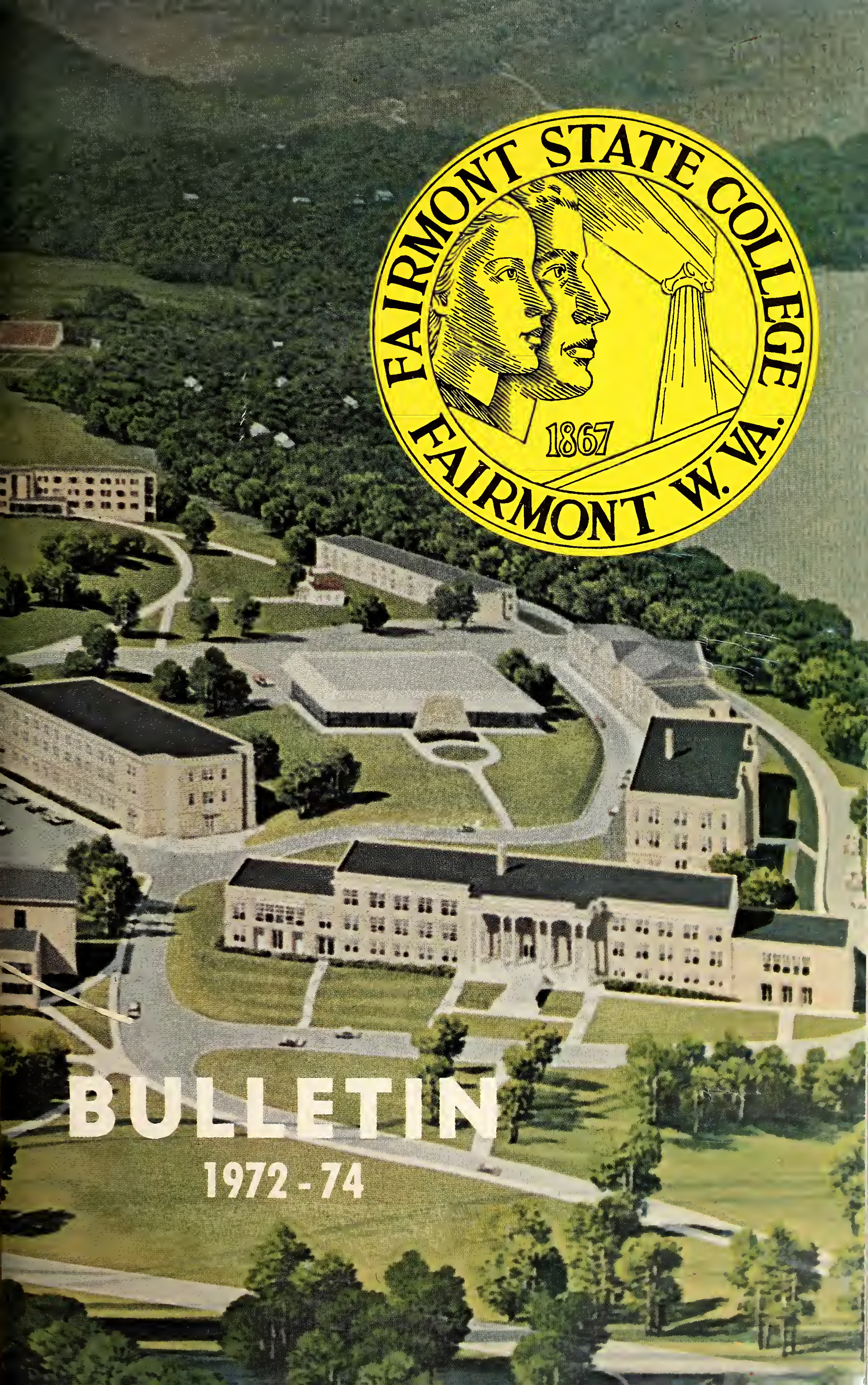


FAIRMONT STATE COLLEGE
1867
FAIRMONT W. VA.

BULLETIN

1972 - 74

CORRESPONDENCE DIRECTORY

The Post Office address of the College is:

Fairmont State College
Fairmont, West Virginia 26554
Phone (304) 363-4000

CORRESPONDENCE should be addressed as indicated below:

Admissions

For everything concerned with the admission of students, including requests for the college catalog and other publications, academic credits, and information about fees

Registrar and Director of Admissions

Administration and General College Policy

President

The Faculty, Curricula, Instruction, Summer Session, Evening and Extension Classes

Dean of Academic Affairs

Guidance and Counseling

Director, Counseling Center

Housing

Associate Dean of Student Affairs—Housing

Scholarships and Loan Information, Student Employment, and Placement

Associate Dean of Student Affairs—Scholarships,
Loan Information, Student Employment, and Placement

Student Accounts, Deferred Payments

Business Manager

Alumni Activities

Alumni Secretary

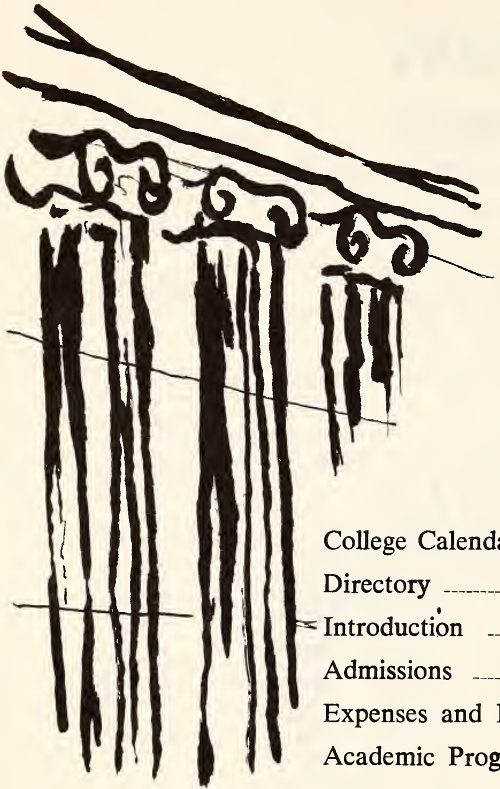
It is the responsibility of students to be aware of official college policies and meet all requirements in the catalog. The catalog should be studied and retained. Catalog revisions and supplements are issued periodically and may be obtained from the Registrar's office. Each student should keep abreast of current degree, curriculum, and course requirements.

The academic advisors and appropriate offices of the college may be consulted if further information is needed.

FAIRMONT
STATE COLLEGE

Volume XCVIII June, 1972 Number 1

GENERAL CATALOG
1972-1974



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Calendar For 1972-1973

FIRST SUMMER SESSION 1972

June	12	Monday	Registration, First Summer Session
	13	Tuesday	First Class, First Summer Session
	13	Tuesday	Last day for registration and/or to add classes
	16	Friday	Last day for making application for summer graduation
July	4	Tuesday	Classes not in Session
	14	Friday	First Summer Session Ends

SECOND SUMMER SESSION 1972

July	18	Tuesday	Registration, Second Summer Session
	19	Wednesday	First Class, Second Summer Session
	19	Wednesday	Last day for registration and/or to add classes
	22	Saturday	Classes in Session
Aug.	18	Friday	Second Summer Session Ends

FALL SEMESTER 1972

Aug.	27	Sunday	Dormitories open 8:00 a.m.
	28-29	Monday-Tuesday	Orientation
	29	Tuesday	Fall Semester Registration
	30	Wednesday	Fall Semester Classes Begin
Sept.	1	Friday	Last day for registration and/or to add classes
	4	Monday	Labor Day, No Classes
	9	Saturday	Institutional Testing (Sophomores)
Oct.	20	Friday	Mid-Semester Reports Due
	20	Friday	Last day for making application for graduation
Nov.	22	Wednesday	Thanksgiving Recess Begins 5:00 p.m.
	27	Monday	Classes Resume 8:00 a.m.
Dec.	2	Saturday	Institutional Testing (Sophomores & Seniors)
	18-22	Monday-Friday	Final Examinations

SPRING SEMESTER 1973

Jan.	7	Sunday	Dormitories open 8:00 a.m.
	8	Monday	Registration Spring Semester
	9	Tuesday	Spring Semester Classes Begin
	12	Friday	Last day for registration and/or to add classes
Mar.	2	Friday	Mid-Semester Reports Due
	2	Friday	Spring Vacation Begins 5:00 p.m.
	5-9	Monday-Friday	Classes not in Session
	12	Monday	Classes Resume 8:00 a.m.
Apr.	14	Saturday	Institutional Testing (Sophomores & Seniors)
	20	Good Friday	Classes not in Session
May	7-11	Monday-Friday	Final Examinations
	12	Saturday	Commencement 10:00 a.m.

Tentative Calendar For 1973-1974

FIRST SUMMER SESSION 1973

June	11	Monday	Registration, First Summer Session
	12	Tuesday	First Class, First Summer Session
	12	Tuesday	Last day for registration and/or to add classes
	15	Friday	Last day for making application for summer graduation
July	4	Wednesday	Classes not in Session
	13	Friday	First Summer Session Ends

SECOND SUMMER SESSION 1973

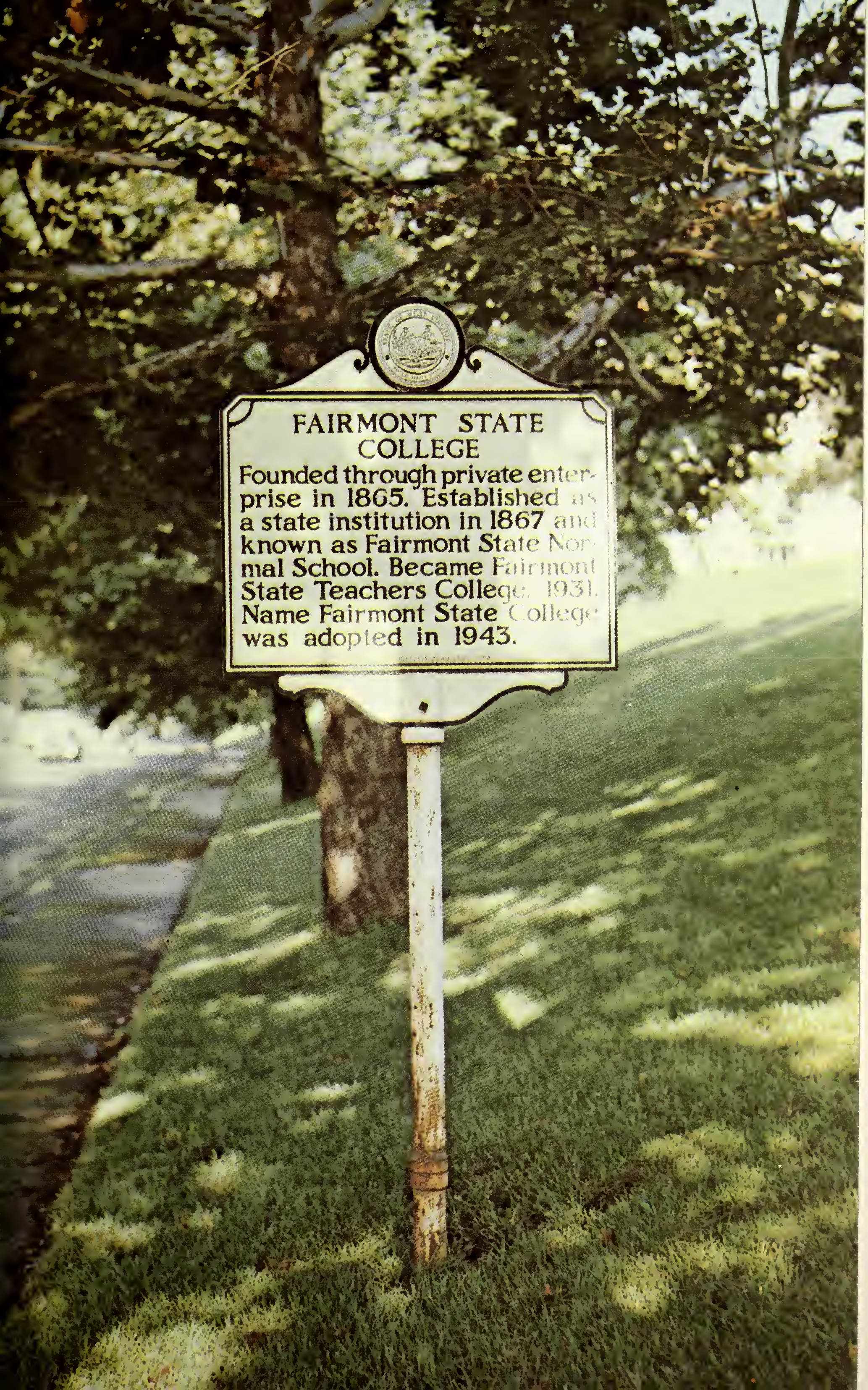
July	17	Tuesday	Registration, Second Summer Session
	18	Wednesday	First Class, Second Summer Session
	18	Wednesday	Last day for registration and/or to add classes
	21	Saturday	Classes in Session
Aug.	17	Friday	Second Summer Session Ends

FALL SEMESTER 1973

Aug.	26	Sunday	Dormitories open 8:00 a.m.
	27-28	Monday-Tuesday	Orientation
	28	Tuesday	Fall Semester Registration
	29	Wednesday	Fall Semester Classes Begin
	31	Friday	Last day for registration and/or to add classes
Sept.	3	Monday	Labor Day, No Classes
	8	Saturday	Institutional Testing (Sophomores)
Oct.	19	Friday	Mid-Semester Reports Due
	19	Friday	Last day for making application for graduation
Nov.	21	Wednesday	Thanksgiving Recess Begins 5:00 p.m.
	26	Monday	Classes Resume 8:00 a.m.
Dec.	1	Saturday	Institutional Testing (Sophomores & Seniors)
	17-21	Monday-Friday	Final Examinations

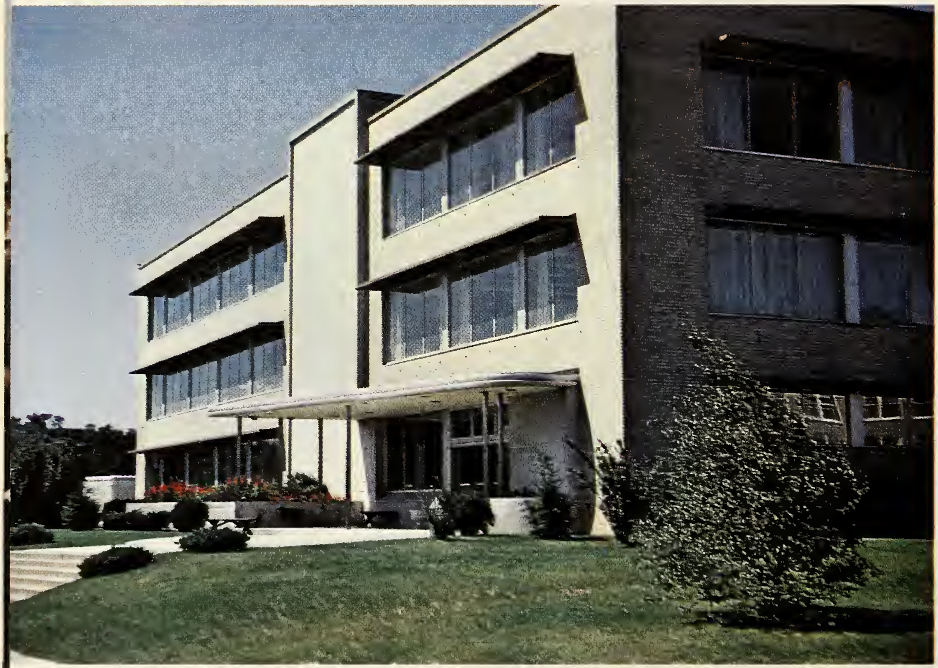
SPRING SEMESTER 1974

Jan.	6	Sunday	Dormitories open 8:00 a.m.
	7	Monday	Registration Spring Semester
	8	Tuesday	Spring Semester Classes Begin
	11	Friday	Last day for registration and/or to add classes
Mar.	1	Friday	Mid-Semester Reports Due
	1	Friday	Spring Vacation Begins 5:00 p.m.
	4-8	Monday-Friday	Classes not in Session
	11	Monday	Classes Resume 8:00 a.m.
Apr.	12	Good Friday	Classes not in Session
	27	Saturday	Institutional Testing (Sophomores & Seniors)
May	6-10	Monday-Friday	Final Examinations
	11	Saturday	Commencement 10:00 a.m.



FAIRMONT STATE
COLLEGE
Founded through private enterprise in 1865. Established as a state institution in 1867 and known as Fairmont State Normal School. Became Fairmont State Teachers College, 1931. Name Fairmont State College was adopted in 1943.

FALCONS



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FEBRUARY

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MARCH

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DECEMBER

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1973

JANUARY

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MARCH

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JULY

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AUGUST

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OCTOBER

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1974

JANUARY

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Frederick P. Stamp, Jr., Wheeling	1977
Elizabeth H. Gilmore (Mrs.), Charleston	1977
Edward H. Greene, Huntington	1975
Albert M. Morgan, Morgantown	1975
Okey L. Patteson, Mt. Hope	1977
Prince B. Woodard, *Chancellor*, Charleston	
Daniel B. Taylor, *State Superintendent of Schools*, Charleston	

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	Term Expires
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GEORGE TILKO, B.S., *Assistant Director*
KENNETH L. CAMPBELL, B.S., *Computer Programmer*

LEARNING RESOURCE CENTER

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  Business Education
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  Elementary Education
  Secondary Education

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  Music

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Department of Home Economics, MELVA HESS, M.S.

Department of Mathematics, JAMES A. LARUE, Ph.D.

Department of Nursing Education, MARTHA MILLER, Ed.D., Director

Department of Speech and Drama, JO ANN LOUGH, M.A.

FACULTY

AMOS, RAYMOND E., JR., (1965), Coordinator, Biology; *Associate Professor of Biology*; B.S., Fairmont State College; M.S., Ph.D., West Virginia University.

ARCURE, MARTIN M., (1968), *Assistant Professor of Physical Education*; A.B., Fairmont State College; M.S., West Virginia University.

ARNOLD, EUGENE R., (1967), *Professor of Education*; A.B., West Virginia State College; M.Ed., University of Cincinnati; Ed.D., University of Pittsburgh.

ASHTON, JOHN H., (1970), *Assistant Professor of Music*; B.F.A., M.F.A., Carnegie-Mellon University.

AYERS, PHYLLIS L., (1956-66; 1971), *Professor of History*; B.S., Carnegie Institute of Technology; Ph.D., University of Pittsburgh.

BAKER, WILLIAM H., III, (1969), *Instructor in Commerce*; A.B., M.S., Kansas State College.

BALSER, ELIZABETH H., (1971), *Assistant Professor of English*; A.B., M.A., West Virginia University.

BATSON, DAVID C., SR., (1969), *Assistant Professor of Industrial-Technical Education*; B.S., M.A., West Virginia University.

BAUER, ROBERT, (1971), *Assistant Professor of Psychology*; A.B., University of South Florida; Ph.D., University of Tennessee.

BOCK, EDWARD E., II, (1967), Director of Computer Center; *Assistant Professor of Commerce*; B.S.E.E., M.S.E.E., West Virginia University.

BORAM, WILLIAM A., (1963-67; 1970), Dean of Academic Affairs; *Professor of English*; B.A., Glenville State College; M.A., West Virginia University; Ph.D., University of Pittsburgh.

BROOKS, JAMES D., (1964), *Associate Professor of Art*; B.F.A., M.F.A., University of Iowa.

BROOKS, MONA, (1969), *Instructor in Speech*; B.A., M.A., Northeast Louisiana State College.

BUCK, CHRISTIANE, (1971), *Assistant Professor of French*; B.A., M.A., West Virginia University.

BUNDY, JOSEPH N., (1965), *Assistant Professor of Physical Education*; B.S., Fairmont State College; M.A., West Virginia University.

BURGESS, WAYLAND D., JR., (1967), *Associate Professor of Education*; A.B., Morris Harvey College; M.A., Marshall University.

BURNS, DORIS W., (1966), *Assistant Professor of Commerce*; A.B., Marshall University; M.A., West Virginia University.

BURNS, RUTH A., (1965), *Assistant Professor of Commerce*; A.B., Fairmont State College; M.A., West Virginia University.

BYERS, GEORGE F., (1971), *Assistant Professor of English*; A.A., Vincennes University; A.B., M.A., Indiana University.

CANNON, GEORGE E., (1962), Dean of Student Affairs; *Associate Professor of Psychology*; A.B., Fairmont State College; M.A., West Virginia University.

CARPENTER, ANITA C., (1971), *Instructor in Nursing Education*; B.S., Alderson-Broaddus College.

CARUSO, A. THOMAS, (1969), *Assistant Professor of Music*; B.F.A., M.F.A., Carnegie-Mellon University.

CAVANAUGH, JEAN C., (1967), *Professor of English*; B.A., Webster College; M.A., St. Louis University; Ph.D., Catholic University of America.

CHURCH, SAMUEL M., (1970), Coordinator, Psychology; *Assistant Professor of Psychology*; A.B., M.S., Ph.D., West Virginia University.

CLARKE, PAUL A., (1967), *Professor of Education*; B.S., Mt. St. Mary's College; M.Ed., Ed.D., University of Maryland.

CLOVIS, JOHN C., II, (1970), *Instructor in Art*; B.S., M.A., West Virginia University.

COLEMAN, JAMES E., (1968), *Professor of Chemistry*; B.S., M.S., Louisiana State University; Ph.D., Ohio State University.

COLLINS, EDMUND E., (1949), *Professor of Physical Science*; A.B., M.A., West Virginia University; Ed.D., University of Pittsburgh.

CONAWAY, JOHN (1971), Assistant Registrar and Director of Admissions; *Instructor in Education*; A.B., Fairmont State College; M.A., West Virginia University.

CONN, ROBERT H., (1966), *Assistant Professor of Foreign Languages;* B.A., M.A., West Virginia University.

CONRAD, HUNTER J., (1961), *Associate Dean of Student Affairs*; *Associate Professor of Education*; B.A., Glenville State College; M.A., West Virginia University.

COPELAND, MARGARET E., (1952), *Associate Professor of English*; B.A., West Virginia University; M.Ed., University of Mississippi.

CREASY, WILLIAM D., (1954), *Professor of Biology*; B.S., West Virginia Institute of Technology; M.S., West Virginia University; Ph.D., University of Iowa.

CRUES, DOROTHY, (1968), *Instructor in Mathematics*; B. A., M.A., Midwestern University.

DIXON, WILLIAM T., (1969), *Assistant Professor of Art*; B.S., Glenville State College; M.A., Marshall University.

DODGE, MARGARET R., (1965), *Instructor in Nursing Education*; B.S., West Virginia University.

DOOLITTLE, MARGARET T., (1966), Coordinator, Elementary Education; *Professor of Education*; B.A., Glenville State College; M.A., Ed.D., West Virginia University.

DULING, GALEN F., (1964) Associate Dean of Academic Affairs for Teacher Education; *Associate Professor of Education*; B.A., Fairmont State College; M.A., West Virginia University.

DUMIRE, JANE E., (1966), *Assistant Professor of English*; B.A., Bethany College; M.S., West Virginia University.

DUNN, BILLY G., (1956), Director of Institutional Research; *Professor of Commerce*; B.S., Concord College; M.S., University of Kentucky; Ed.D., West Virginia University.

DUVALL, HAROLD S., (1952), *Associate Professor of Physical Education*; B.S., Fairmont State College; M.A., Columbia University.

ECKLES, LARRY E., JR., (1964), Coordinator, Foreign Languages; *Professor of Foreign Languages*; B.A., M.A., Western Reserve University; Ph.D., University of Paris.

EDWARDS, PAUL E., (1967), Associate Dean of Academic Affairs; *Associate Professor of History*; B.A., Willamette University; M.A., Ph.D., American University.

FEASTER, ESTON K., (1960), *President*; B.A., Fairmont State College; M.A., West Virginia University; Ed.D., The George Washington University.

FITCH, JOHN R., (1970) *Instructor in Sociology*; B.A., M.A., Syracuse University.

FLEMING, LUCY GRAY, (1971), *Instructor in Physical Education*; A.B., Fairmont State College; M.S., West Virginia University.

FORD, ELEANOR M., (1946), *Professor of Physics*; B.S., M.S., West Virginia University.

FOWLER, DWIGHT, (1956), Director, Division of Industrial-Technical Education; *Associate Professor of Industrial-Technical Education*; B.S., West Virginia Institute of Technology; M.Ed., Wayne State University.

FOX, RICHARD T., (1969), Coordinator, Economics; *Associate Professor of Commerce*; B.S., Indiana University; M.A., Western Michigan University.

FRIED, RICHARD M., (1971), *Assistant Professor of History*; B.A., Amherst College; M.A., Columbia University.

FRYE, A. NEIL, (1961), Associate Dean of Student Affairs; *Assistant Professor of Education*; B.A., Fairmont State College; M.A., West Virginia University.

FULDA, MICHAEL, (1971), *Assistant Professor of Political Science*; M.A., Ph.D., American University.

GARNER, CLIFFORD R., (1972), *Instructor in Industrial-Technical Education*; B.A., Fairmont State College; M.A., West Virginia University.

GATRELL, A. STEVEN, (1970), *Assistant Professor of History*; B.S., University of Illinois; M.A., West Virginia University.

GICK, G. ALAN, (1971), *Assistant Professor of Commerce*; B.S., Indiana University of Pennsylvania; M.Ed., University of Pittsburgh.

GILLESPIE, PATRICIA H., (1970), *Associate Professor of Education*; B.S., Concord College; M.A., Ed.D., West Virginia University.

GILMER, JERIEL M., (1969), *Assistant Professor of Music*; B.M., West Virginia University; M.M., Peabody Conservatory of Music.

GIVENS, RUTH J., (1965), *Assistant Professor of English*; B.A., Fairmont State College; M.A., West Virginia University.

GOODWIN, JAMES C., (1971), *Assistant Professor of Industrial-Technical Education*; B.S., M.S., West Virginia University.

GOULD, MARVIN B., (1968), *Assistant Professor of Commerce*; B.S., M.B.A., West Virginia University.

GRATTAN, ROBERT M., (1970), *Assistant Professor of English*; B.A., Duquesne University; M.A., Ph.D., Ohio University.

GRAY, LOWELL, (1971), *Instructor in Music*; A.B., Fairmont State College; M.A., Marshall University.

GRIMSLEY, BARBARA J., (1965), *Instructor in Nursing Education*; B.S., West Virginia University.

HADLEY, HARRY J., (1969), Chairman, Division of Education; *Associate Professor of Education*; B.S., Frostburg State College; M.A., Ed.D., West Virginia University.

HAINES, BILLY L., (1966), *Assistant Professor of History*; B. A., M.A., West Virginia University.

HALES, JAMES A., (1964), Director of Learning Resources Center; *Associate Professor of Industrial-Technical Education*; B.S., M.A., Kent State University.

HAMILTON, DONALD L., (1969), *Assistant Professor of Music*; B.A., Fairmont State College; M.M., West Virginia University.

HARMAN, GLENN A., (1968), Coordinator, Business Administration; *Assistant Professor of Commerce*; A.A., Potomac State College; B.S., Fairmont State College; M.B.A., West Virginia University.

HAYNES, D. STEPHEN, (1971), *Assistant Professor of Physics*; B. S., Georgia Tech; Ph.D., Florida State University.

HERRING, LEWIS H., (1967), *Associate Professor of Industrial-Technical Education*; B.S., Texas College of Arts and Industries; M.Ed., University of Texas.

HESS, MELVA C., (1951), Chairman, Department of Home Economics; *Associate Professor of Home Economics*; B.A., Fairmont State College; M.S., West Virginia University.

HICKS, THOMAS B., (1969), *Instructor in Geography*; B.S., M.A., Eastern Michigan University.

HILL, LARRY L., (1971), *Instructor in Physical Education*; A.B., Fairmont State College; M.A., West Virginia University.

HORNE, NANCY L., (1970), *Instructor in Commerce;* B.S., M.Ed., University of Pittsburgh.

HUNT, CARL M., (1970), Coordinator of Black Studies; *Instructor in History*; B.S., Bluefield State College; M.A., West Virginia University.

HUSSEY, JOHN P., (1971), *Assistant Professor of English*; A.B., M.A., University of Detroit; Ph.D., University of Florida.

HUSTON, ANNE B., (1970), Coordinator, Sociology; *Instructor in Sociology*; B.A., University of Pittsburgh; M.A.T., Cornell University; M.A., University of Pittsburgh.

JACKSON, BYRON K., (1968), Chairman, Division of Language and Literature; *Professor of English;* B.S., Butler University; M.A., University of Miami; Ph.D., University of Florida.

JAYNES, EDGAR N., (1947), Chairman, Division of Commerce; *Professor of Commerce*; B.A., West Virginia University; M.B.A., Boston University.

JOHNSON, LOWELL E., (1971), *Assistant Professor of Education*; B.S., Concord College; M.A., Ed.D., West Virginia University.

JONES, MARILYNN D., (1966), *Associate Professor of English*; B.A., Fairmont State College; M.A., West Virginia University.

KEISTER, BETTY J., (1969), *Instructor in Nursing Education*; B.S., Alderson-Broaddus College.

KENNEDY, MARY, (1965), *Instructor in Music*; B.M., West Virginia University; M.M., New England Conservatory of Music.

KERR, WILLIAM H., (1963), *Assistant Professor of Physical Education*; B.A., Fairmont State College; M.A., West Virginia University.

KING, JOHN W., (1968), *Associate Professor of English*; B.A., St. John Vianney; B.S., College of Steubenville; M.A., University of Notre Dame.

LAFAUCI, DOUGLAS M., (1971), *Instructor in Industrial-Technical Education*; B.S., Central Connecticut State College; M.S., Illinois State University.

LARKIN, MARGARET M., (1968), *Associate Professor of Mathematics*; B.A., College of St. Francis; M.A., University of Michigan.

LARUE, JAMES A., (1954), Chairman, Department of Mathematics; *Professor of Mathematics*; B.A., M.S., West Virginia University; PhD., University of Pittsburgh.

LAUGHLIN, WILLIAM M., JR., (1966), *Assistant Professor of Commerce*; B.A., College of William and Mary; M.A., University of Cincinnati.

LENGEL, RICHARD R., (1966), *Associate Professor of History*; B.A., M.A., Sul Ross State College.

LEONARD, LOY W., (1956), *Assistant Professor of Industrial-Technical Education*; B.A., Fairmont State College; M.A., West Virginia University.

LONG, PATRICIA S., (1971), *Instructor in Industrial-Technical Education*; A.B., M.A., West Virginia University.

LOUGH, JO ANN, (1956), Chairman, Department of Speech and Dramatics; *Assistant Professor of Speech and Dramatics*; B.A., Fairmont State College; M.A., West Virginia University.

LUCAS, AILEEN, (1964), Assistant Librarian; *Assistant Professor of Library Science*; B.A., Marietta College; B.S.L.S., George Peabody College.

MAHANEY, STEPHEN J., (1971), *Instructor in Physical Education*; B.S., M.A., University of Maryland.

MALONEY, FRANCES L., (1962), *Assistant Professor of Physical Education*; B.A., Fairmont State College; M.S., West Virginia University.

MANLY, CHARLES G., II, (1968), *Assistant Professor of Speech and Dramatics*; B.A., Salem College; M.A., West Virginia University.

MARTIN, LUCILLE D., (1969), *Instructor in Home Economics*; A.B., Fairmont State College; M.S., West Virginia University.

MASTERS, ROBERT G., (1960-66; 1971), Librarian; *Assistant Professor of Library Science*; B.S., West Virginia University; M.A., George Peabody College.

MCCORMICK, CHARLES A., (1970), *Assistant Professor of History*; B.A., Kent State University; M.A., Yale University; Ph.D., American University.

MCCUTCHEON, GARY L., (1968), *Assistant Professor of Physical Education*; A.B., Fairmont State College; M.A., West Virginia University.

MCGRATH, LINDA, (1971), *Instructor in Physical Education*; B.S., Springfield College; M.S., West Virginia University.

MCGREEVY, FRANCIS X., (1970), *Instructor in Commerce*; B.S., M.S., West Virginia University.

MCKINNEY, LOUISE C., (1971), *Instructor in Mathematics*; B.S., California State College; M.S., West Virginia University.

MCLAUGHLIN, EARL G., (1967), *Professor of Education*; B.A., Glenville State College; M.A., Ed.D., West Virginia University.

MICHNA, ADAM F., (1969), *Assistant Professor of Biology*; B.A., Fairmont State College; M.A., West Virginia University.

MILAM, OTIS H., JR., (1953), Registrar and Director of Admissions; *Associate Professor of Education*; B.S., West Virginia University; M.A., Marshall Univervity.

MILLER, MARTHA L., (1964), Director of Nursing Education; *Professor of Nursing Education*; B.S.N., University of North Carolina; M.S., Case-Western Reserve University; Ed.D., Columbia University.

MOERK, ALICE A., (1969), *Associate Professor of Music*; B.M., Carthage College; M.F.A., Ohio University; Ph.D., West Virginia University.

MONINGER, DELBERT D., (1969), *Instructor in Industrial-Technical Education*; B.S., West Virginia University; M.Ed., Duquesne University.

MOODY, FRANCES, (1962), *Associate Professor of Music*; B.A., Concord College; M.A., Columbia University.

MORGAN, MARY ELINOR, (1965), *Assistant Professor of History*; B.A., M.A., West Virginia University.

MOROOSE, DONALD A., (1969), *Assistant Professor of Education*; B.A., Fairmont State College; M.S., Ed.D., West Virginia University.

MUTO, LOIS E., (1970), Associate Dean of Student Affairs; *Instructor in Education*; A.B., Fairmont State College; M.A., West Virginia University.

NAEGELE, ORVILLE D., (1960), *Assistant Professor of Geology*; B.S., M.S., University of Cincinnati.

NAILLER, BARBARA E., (1966-69; 1970), *Assistant Professor of Education*; B.S., Adrian College; M.A., West Virginia University.

NELSON, CARL W., (1971), *Assistant Professor of English*; B.A., M.A., Ph.D., State University of New York, Binghamton.

NEPTUNE, MARLYN G., (1966), *Assistant Professor of Physical Education*; B.S., M.S., West Virginia University.

NESSELROAD, JOANNA S., (1971), *Assistant Professor of Home Economics*; B.S., M.S., West Virginia University.

NEWCOME, MILDRED M., (1966), *Associate Professor of English*; B.A., M.A., West Virginia University.

NICHOLS, EMILY, (1971), *Instructor in Commerce*; B.S., Fairmont State College.

NIEVES, ALVAR L., (1971), *Instructor in Sociology*; A.B., University of Miami; M.A., University of Kentucky.

NUTTER, BARBARA F., (1964), *Assistant Professor of English*; B.A., Fairmont State College; M.A., West Virginia University.

O'DELL, BETTY J., (1970), *Instructor in Speech and Dramatics*; A.B., M.A., West Virginia University.

OVERKING, MICHAEL M., (1968), *Assistant Professor of Speech and Dramatics*; B.A., Fairmont State College; M.A., Ohio University.

PARKER, RICHARD A., (1971), *Instructor in Speech and Dramatics*; B.A., M.A., University of Houston.

PEARSE, RONALD D., (1968), *Assistant Professor of Psychology*; B.A., Fairmont State College; M.A., West Virginia University.

PEASE, LOUISE M., (1968), *Professor of History*; B.A., Concord; M.A., Miami University; Ph.D., West Virginia University.

PELL, PETER E., (1967), Associate Dean of Student Affairs; *Assistant Professor of Education*; A.B., Fairmont State College; M.A., West Virginia University.

PETERS, HAROLD DEAN, (1968), *Assistant Professor of History*; B.A., Marshall University; M.A., West Virginia University.

PETRO, FLORA R., (1964), Coordinator, Secretarial Studies; *Assistant Professor of Commerce*; B.A., Fairmont State College; M.A., West Virginia University.

PHEASANT, JOHN L., (1969), *Instructor in Industrial-Technical Education*; B.S., B.A., Fairmont State College; M.A., West Virginia University.

PHILLIPS, WALTER F., (1966), *Assistant Professor of Industrial-Technical Education*; B.A., Fairmont State College; M.A., West Virginia University.

PHILLIPS, WILLIAMS E., JR., (1966), *Associate Professor of Education*; B.A., Fairmont State College; M.A., West Virginia University.

POSTON, CHARLES D., (1969), *Assistant Professor of English*; B.A., Lamar State College; M.A., University of Texas; Ph.D., University of Oklahoma.

POTESTA, WOODROW A., (1948), *Professor of Commerce*; B.S., J.D., West Virginia University.

POTTER, WILLIAM M., (1970), *Instructor in Commerce*; B.S., East Tennessee State University; M.A., Memphis State University.

POWELL, RUTH ANN, (1966), Assistant Librarian; *Assistant Professor of Library Science*; A.B.Ed., Fairmont State College; M.L.S., Kent State University.

PRIESTER, HARRY G., (1967), Coordinator, Secondary Education; *Associate Professor of Education*; B.S., M.A., West Virginia University.

PRITCHETT, WILLIAM H., (1967), *Associate Professor of Biology*; B.S., Davidson College; Ph.D., University of Virginia.

PUDSELL, F. DAVID, (1968), Coordinator, History; *Assistant Professor of History*; B.A., Tusculum College; Th.B., The Pittsburgh Theological Seminary; M.A., Indiana University.

PULSIFER, JACK R., (1965), *Associate Professor of History*; B.A., Lamar State College; M.A., Northwestern University.

RADCLIFF, JUDITH, (1969), *Instructor in Home Economics*; B.S., West Virginia University; M.S., University of Maryland.

RADER, STEPHEN M., (1969), *Assistant Professor of English*; B.A., Marietta College; M.A., Ohio University.

REINHARDT, ROBERT M., (1970), *Instructor in Political Science*; B.A., Anderson College; M.Div., Graduate School of Religion at Anderson College; M.A., Ball State University.

RETTON, JOSEPH, JR., (1963), *Assistant Professor of Physical Education*; B.A., Fairmont State College; M.A., West Virginia University.

RICHARDSON, RAYMAN, (1971), *Assistant Professor of Physical Science*; A.B., Central Methodist College; M.S.T., University of Missouri; Ph.D., Ohio State University.

ROWE, MELANIE J., (1971), *Instructor in Mathematics*; A.B., Fairmont State College; M.A., University of Pittsburgh.

RUOFF, WILLIAM D., (1966), Chairman, Division of Science; *Associate Professor of Chemistry*; B.S., Albright College; M.S., Ph.D., University of Delaware.

RYAN, PATRICIA P., (1966), *Associate Professor of Political Science*; B.A., American University at Cairo; M.A., West Virginia University.

SALVATI, JANET S., (1967), Assistant Librarian; *Assistant Professor of Library Science*; A.B.Ed., Fairmont State College; M.L.S., University of Pittsburgh.

SANSALONE, FRANK V., (1962), *Instructor in Commerce*; B.S., Fairmont State College; J.D., West Virginia University.

SAYE, JERRY D., (1971), Assistant Librarian; *Instructor in Library Science*; B.S., Wisconsin State University; M.L.S., University of Pittsburgh.

SCHAUPP, FRED W., (1970), *Assistant Professor of Commerce*; B.B.A., University of Pittsburgh; M.B.A., Ed.D., West Virginia University.

SCHNEIDER, WILLIAM J., (1962), *Associate Professor of Mathematics*; B.A., Fairmont State College; M.S., West Virginia University.

SCHOOLEY, JOHN H., (1970), *Assistant Professor of Music*; B.S., Mansfield State College; M.M., East Carolina University.

SCHULTZBANK, PHILIP H., (1967), *Assistant Professor of Commerce*; B.S., Rider College; M.S., University of Tennessee.

SCOTT, CAROL S., (1971), *Instructor in Nursing Education*; B.S., Alderson-Broaddus College.

SHAFFER, WILLIAM D., (1966), Director, Counseling Center; *Assistant Professor of Psychology*; B.A., Fairmont State College; M.A., West Virginia University.

SHAN, ROBERT K., (1969), *Associate Professor of Biology*; B.S., Taiwan Normal University; M.S., University of British Columbia; Ph.D., Indiana University.

SHERREN, DAVID C., (1968), *Associate Professor of Industrial-Technical Education*; B.S., M.S., West Virginia University.

SIMONOF, JEAN E., (1967), Assistant Librarian; *Assistant Professor of Library Science*; B.F.A., Moore College of Art; M.L.S., University of Pittsburgh.

SKAGGS, RUTH MARIE, (1967), *Assistant Professor of Home Economics*; B.S., M.S., West Virginia University.

SKINNER, C. WALDON, (1967), Chairman, Division of Health and Physical Education; *Professor of Physical Education;* B.A., B.S., Fairmont State College; M.S., West Virginia University; Ed.D., Columbia University.

SNYDER, R. BARRY, (1967), Coordinator, Art; *Assistant Professor of Art*; B.A., Southwestern College at Memphis; M.F.A., University of Mississippi.

SNYDER, SUZANNE T., (1962), *Assistant Professor of Speech and Dramatics*; B.A., Fairmont State College; M.A., University of Pittsburgh.

SONNENSHEIN, RICHARD A., (1971), *Associate Professor of English*; B.S., Marquette University; M.A., DePaul University; Ph.D., Northwestern University.

SPRINGER, HUGH B., (1971), *Instructor in History and Philosophy*; A.B., West Virginia University; B.D., Pittsburgh Theological Seminary; M.Ed., University of Pittsburgh.

STRAIGHT, EARL N., (1961), Director of Public Relations; *Associate Professor of Journalism*; B.A., Fairmont State College; M.A., West Virginia University.

SWANSON, CHARLES N., (1969), *Associate Professor of Speech and Dramatics;* B.A., Macalester College; M.A., Colorado State College.

SWIGER, ELIZABETH D., (1956), *Professor of Chemistry*; B.S., M.S., Ph.D., West Virginia University.

TEAHAN, JOHN MICHAEL, (1967), *Assistant Professor of English*; B.A., Manhattan College; M.A., Columbia University.

TEICHMAN, MEIR, (1971), *Assistant Professor of Psychology*; B.A., M.A., Ber Ilan University; Ph.D., University of Missouri, Columbia.

THOMPSON, WILLIAM R., (1971), *Instructor in Industrial-Technical Education*; B.S.Ed., M.Ed., Millersville State College.

TURNER, L. JAMES, (1970), *Instructor in Chemistry*; B.S., M.S., West Virginia University.

VANHORN, JOANNE, (1966), *Assistant Professor of History*; B.A., M.A., Marshall University.

VEASEY, MARILEE H., (1966), *Assistant Professor of Speech and Dramatics*; B.A., Fairmont State College; M.A., West Virginia University.

WANG, YU SAN, (1968), Chairman, Division of Social Sciences; *Professor of Political Science;* B.A., Concord College; M.A., University of Massachusetts; Ph.D., University of Pennsylvania.

WARD, JEAN E., (1969), *Assistant Professor of Physical Education*; B.S., M.Ed., Frostburg State College.

WARDIAN, W. RICHARD, (1970), *Instructor in History*; B.A., Thiel College; M.A., Kent State University.

WATSON, BART, (1966), *Assistant Professor of English*; B.A., Fairmont State College; M.A., West Virginia University.

WEBER, DANIEL K., (1969), *Instructor in Speech and Dramatics*; B.A., Fairmont State College; M.A., West Virginia University.

WEEMS, CHARLES W., (1968), *Assistant Professor of Biology*; B.S., M.A., East Tennessee State University.

WELLOCK, RICHARD P., (1960), Chairman, Division of Fine Arts; *Associate Professor of Music*; B.S., Southwest Missouri State College; M.A., Columbia University.

WHITE, CRAIG C., (1967), *Assistant Professor of Sociology*; B.A., Bethany College; M.A., West Virginia University.

WHITEMAN, RICHARD, (1966), *Assistant Professor of Industrial-Technical Education*; B.S., West Virginia University.

WILLARD, MARGARET, (1949), *Associate Professor of Education*; B.A., Fairmont State College; M.A., West Virginia University.

WILLS, JACK C., (1971), *Associate Professor of English*; B.S.F., West Virginia University; M.A., Ph.D., University of Delaware.

WILSON, WILFORD R., (1939), Director of Athletics; *Associate Professor of Physical Education*; B.A., Fairmont State College; M.A., Columbia University.

WISE, KENNETH G., (1948), *Professor of Industrial-Technical Education*; B.S., Ohio University; M.A., Ohio State University.

YOST, PAUL V., (1960), Dean of Administrative Affairs; *Associate Professor of Education*; B.A., Shepherd College; M.A., West Virginia University.

YOUNG, JAMES R., (1967), *Assistant Professor of Geography*; B.S., Morris Harvey College; M.S., Marshall University.

ZIVKOVIC, PETER D., (1969), *Associate Professor of English*; B.S., M.A., University of Illinois.

RETIRED FACULTY

EVA DAY COMPTON, M.A., *Home Economics*

FRED B. EDGELL, Ph.D., *English*

ELIZABETH TERRY FRANCIS, M.A., *French*

WAYNE T. GRAY, Ph.D., *Sociology*

FRANK HALL, M.A., *Education*

GERTRUDE HALL, M.A., *Home Economics*

CLEO D. HAUGHT, M.S., *Chemistry*

CLIFFORD R. HOUSE JR., M.Ed., *English*

MAUD M. HULL, M.A., *Education*

GEORGE HUNT, Ph.D., *Zoology*

ETHEL ICE, M.A., *German*

M. E. MCCARTY, M.A., *Mathematics*

PEARL S. MCCARTY, Ed.D., *English*

CLORA MARPLE, M.A., *Education*

RUTH ANN MUSICK, Ph.D., *English*

PAUL F. OPP., Ped. D., *English*

MARY B. PRICE, Music Supervisors Diploma, *Music*

LILLIAN L. RHODES, M.A., *Art*

JEAN E. RICHMOND, M.A., *Home Economics*

JOSEPHINE L. ROSIER, B.S.L.S., *Librarian*

FRANCIS SHREVE, Ph.D., *Education*

LEO R. TAGGART, D.Ed., *Education*

MARJORIE TATE, M.A., *English*

MARTIN J. TAYLOR, Ed.D., *Education*

GEORGE H. TURLEY, M.A., *Speech and Drama*

LAWRENCE A. WALLMAN, M.A., *Speech and Drama*

NELLE E. WALTERS, M.A., *Physical Education*

KENNETH G. WEIHE, Ph.D., *English*

STARK A. WILMOTH, M.A., *Education*

An Introduction

ABOUT THE CAMPUS

Fairmont State College is a coeducational institution offering both associate and bachelors degree programs. Its 80 acre campus is beautifully located on a hill overlooking Fairmont, West Virginia. The city of Fairmont is approximately 90 miles south of Pittsburgh.

In operation for over 100 years, Fairmont State has shown a steady growth both in the numbers of students it serves (the student body has tripled in size in the last 10 years) and in the programs and facilities available.

An extensive building program has produced a new Fine Arts Building, the new $3 million Hunt-Haught Science Hall, and expansion of the Student Center. A $1.2 million addition to the Library is to be constructed beginning in 1972. There are 12 major buildings on the campus.

In addition to the stress on up-to-date facilities, Fairmont State has preserved and honored its traditions. Its extensive campus contains the only known stand of virgin timber remaining in Marion County and one of the last in the state of West Virginia. A one-room school museum on campus recalls the days when the College served as a private teacher training school beginning in 1865 (Fairmont became a state-supported normal school in 1867 and in 1943 was authorized to offer Bachelor of Arts and Bachelor of Science degrees).

The school's principal emphasis is on academic excellence, supplemented by an extensive sports program and an active fine arts program. A year-round contemporary film series, and lecture and music programs are a part of the social calendar.

Fairmont State offers a wide range of majors, including most disciplines in the arts and sciences, teacher education, business administration, industrial-technology, and other professional and vocational fields.

The city of Fairmont is the county seat of Marion County and has a population of about 30,000. It is the center of the coal industry of northern West Virginia and the operating headquarters and home of large coal, utility, and manufacturing concerns.

PHILOSOPHY AND OBJECTIVES

Fairmont State College is an undergraduate institution operating under the authority of the West Virginia Board of Regents. The College is governed by its President with the aid and advice of its Advisory Board, Deans, and Faculty Senate. It offers courses of study leading to the Bachelor's Degree in the humanities, the social and natural sciences, teacher education, and the fine arts. The College also conducts programs of vocational education and grants the certificate of Associate in Arts or in Science after two years of study. Pre-professional study is available in several fields, including medicine, dentistry, and pharmacy.

Fairmont State College considers that its objective is to educate its students as intelligent and productive persons, capable of participating in and understanding the world of the twentieth century. Accordingly, the College seeks to provide a suitable environment for free and responsible inquiry into the nature, sources, and implications of human knowledge and culture; and it challenges students to promote their own intellectual, social, and personal development. The College faculty serve this objective by guiding the students in acquiring knowledge and by maintaining a dialogue with them. The College fully supports the ideal of a well-educated society and upholds the academic freedom of its faculty and students, confident that the best interests of the community are served when the search for truth is imaginative and vigorous.

The College follows a liberal policy of student admissions and believes that it can help the highly-motivated student to overcome any deficiencies in his academic preparation. Academic standards are high, and the Fairmont State College degree is expected to represent a level of achievement that will be respected throughout the nation.

The College has traditional interest in preparing teachers for the West Virginia public schools. Recognizing the importance of able teachers to a progressive society, it requires outstanding academic performance of its teacher candidates and offers them sound professional training for elementary and secondary teaching.

Drawing many students from its immediate vicinity, the College welcomes the enthusiastic support it receives from Fairmont and surrounding areas. In return it participates actively in community projects, shares its programs and facilities with the public, and serves the community as a center of information and culture.

ACCREDITATION

As a mark of its stature and academic excellence, a college obtains accreditation from both regional and national agencies and joins certain organizations. Fairmont State College is fully accredited by the North Central Association of Colleges and Secondary Schools and the National Council for Accreditation of Teacher Education.

The College is a member of the American Association of Colleges for Teacher Education, the Association of American Colleges, the American Council on Education, the National Commission on Accrediting, the National League for Nursing, the Regional Council for International Education, the American Library Association, and the West Virginia Library Association.

Admission

GENERAL ADMISSION PROCEDURE

All students desiring admission to Fairmont State College, whether directly from high school or as transfer students from another college or university, must file an application for admission and submit a health record on forms provided by the Registrar and Director of Admissions. All correspondence relative to admission and all credentials in support of an application must be on file at least two weeks prior to the opening of a semester or term.

Admission of West Virginia High School Graduates

Graduates of approved West Virginia high schools are eligible if they rank in the upper three-fourths of their graduating classes and have no severe health or character defect.

Graduates of approved West Virginia high schools who rank in the lower quarter of their graduating classes may be admitted provided they have attained a composite standard score of 14 or above on the American College Test.

Graduates of approved secondary schools who rank in the lower quarter of their graduating classes and who fail to attain a composite standard score of 14 or above on the American College Test may be admitted to Summer School. Under this program the student will be required to attend at least one summer term, completing six semester hours of work, three of which must be classified as general education. Continuation to the fall semester will be determined at the conclusion of the summer term by the Registrar and Director of Admissions.

Graduates of approved secondary schools who have served in the nation's military forces for a period of at least one year will be admitted irrespective of either their high school graduation class rank or their ACT Test Scores, unless convincing evidence of a severe health or character defect is received.

The above requirements are minimal and it should be understood that admission to the college does not necessarily guarantee admission to specific programs, successful completion of which require certain competencies.

Admission of Out-of-State Students

To be considered for admission, applicants whose legal residence is in a state other than West Virginia must rank in the upper two-thirds of their graduating classes, complete the ACT Test, have the recommendation of their high school principal or counselor, and have no severe health or character defect. The final decision as to eligibility is based on a combination of the above factors.

Provisional Admission of High School Juniors

Provisional admission will be granted high school juniors who have attained a 3.0 (B) average or better on at least 12 units of the college preparatory curriculum at the end of six semesters of high school work. Final admission may not be granted until graduation from high school.

Admission of Superior and Talented High School Students

Outstanding high school students may be admitted either in the summer following completion of their junior year in high school or on a part-time basis during their senior year in high school if they meet the following criteria:

1. Have completed the junior year of the college-bound curriculum of his high school.
2. Have a B-plus, or better, average on high school subjects in the college-bound curriculum.
3. Have the recommendation of the high school principal.
4. File an application for admission and submit transcripts of high school work.
5. Pay regular college fees.

The credit earned under this arrangement is college credit and will be "stored" here and granted to the student when he enrolls in college. Should he enroll in another college, a transcript of the work will be forwarded to that institution. The decision as to whether advance standing credit is granted is, of course, left to the discretion of the receiving institution.

This program is not designed to interfere with the regular high school program. Rather, it affords an opportunity for superior students to accelerate their training if they so desire.

Admission by G.E.D. Test

Non-high school graduates may be admitted by completing the General Education Development Test. They must be veterans, persons over 19 years of age, or persons past the age they would have been had they remained in high school until they graduated. Such persons must have been out of school more than one year preceding application for examination. They will be admitted if they attain a standard score of 40 on each of the five parts of the General Education Development Test or an average standard score of 50 or above on the entire test. Such students must have no severe character or health defect. G.E.D. scores must be sent directly to the Registrar and Director of Admission from USAFI or from the testing center.

Foreign Students

To be admitted, a foreign student must demonstrate proficiency in written and spoken English. Such proficiency can be established by the successful completion of the Test of English as a Foreign Language, administered by the Education Testing Service of Princeton, New Jersey, 08540. Information concerning this test can be secured through U. S. Embassies and Consulates throughout the world or by writing to TOEFL, 1755 Massachusetts Avenue, N.W., Washington, D.C., 20036.

The applicant must provide proof of adequate financial support. Such proof normally consists of a letter from an appropriate governmental or bank official showing that he has sufficient funds to defray the cost of his education while attending Fairmont State College and that these funds will be available to him in this country.

The applicant must also file an application for admission, a health form, and an official transcript of all academic credits and grades. The transcript must be sent by the institution last attended. The application for admission may be secured by writing to the Director of Admissions, Fairmont State College, Fairmont, West Virginia, 26554.

Admission of Transfer Students

Any applicant for admission to Fairmont State College who has attended another institution of collegiate rank will be classified as a transfer student, whether he has earned credit or not. The college does not, under any condition, disregard college level credit earned elsewhere. Advance standing credit will not be granted for credit designated as occupational or non-transferable by the institution attended. Credit earned at other accredited colleges and universities will be allowed toward a degree if applicable.

To be admitted unconditionally as a transfer student, one must meet the entrance requirements of Fairmont State College, must present evidence that he is in good standing in every respect at the institution last attended, and ordinarily must have maintained a "C" (2.0) or better average on all college work previously attempted. Students who have been dismissed for academic or social reasons will not be eligible for admission.

Applications of students who do not meet the requirements for unconditional admission are considered on an individual basis by the Admission and Credits Committee. Factors such as quality of high school work, test scores, maturity, military service, work experience, length of time out of school, size of quality point deficiency, etc. are weighed and, if warranted, probationary admission may be granted.

Transfer credits are posted on the permanent record as received. All grades received by a transfer student in the college or colleges which he has previously attended must be included in the calculation of his quality point average even though some of the grades do not represent courses for which credit can be granted. Grades earned in other institutions shall not be used to make up a deficit of quality points in this institution.

To be official, a transcript must come directly from the issuing institution and must bear the official seal of the institution, and the manual signature of the proper authority. The transcript should show the descriptive title of the courses, the year in which the work was done, the number of credits, and the grades. Transcripts, when accepted, become the permanent property of the college and will not be returned to the student. Such transcripts should be sent at least two weeks prior to the opening of the semester or term.

General Requirements for All Applicants for Admission

All credentials submitted in support of an application for admission become the property of the College and will not be returned to the student. Such credentials include an official transcript of high school or college grades, an application for admission and a health record. The prospective student is responsible for the submission of all necessary forms and records in support of an application for admission.

Admission is for one semester or term and may be used only for that time. If the student fails to register during the semester or term for which he has been admitted, he must file another application if he desires admission at a later date.

Any student admitted upon the basis of false and/or incomplete credentials will be subject to immediate dismissal from the college.

Admission does not guarantee housing. Separate applications for dormitory space must be submitted to the Dean of Men or Dean of Women.

Any changes in local addresses of any student at Fairmont State College must be reported to the Registrar within a reasonable time.

All local addresses must be complete including the address of a student's landlord.

The American College Test

Fairmont State College requires the American College Test (ACT) of all applicants for admission. Scores on this test are used in placing students in English and Mathematics, for applicants for scholarships and loans, and in the academic counseling program. High school students are urged to take the test during their senior year. Financial aid applicants should take the test either in August prior to the beginning of the senior year, or on the October or December dates.

Advanced Placement

Advanced placement and/or credit will be granted to entering freshman students who have qualified on the basis of the tests of the Advanced Placement Program of the College Entrance Examination Board. Scores of three, four, or five are required.

Physical Examination

All students admitted to Fairmont State College, or who have been absent for two semesters, are required to have a physical examination by their personal physician. This physical examination forms will be sent to the student in time for the student to obtain the physical examination before reporting for Orientation Week. Failure to comply with the regulation on the part of the student will result in suspension until the regulation has been met.

Pre-Registration

All freshmen and transfer students are urged to pre-register during the summer preceding enrollment. All new students are expected to pre-register unless they live at such a distance from Fairmont as to make a special trip an undue hardship. It is understood, however, that students who participate in the pre-registration program will be given priority in making schedules.

Transfer students who have been fully admitted may be pre-registered by coming to the campus at a time arranged with the Registrar. All transfer students should avail themselves of this opportunity since it simplifies the transfer process.

A pre-registration period for regularly enrolled students is scheduled each semester. The purpose of pre-registration is to insure students adequate schedules. All students must pre-register if they plan to re-enroll for the following semester or term.

Registration

At least two weeks prior to registration day an official transcript of credit must be filed in the Office of the Registrar and Director of Admissions for each incoming freshman and each transfer student.

All students are expected to complete registration on the days designated for this purpose at the beginning of each semester or term. Registration by proxy is prohibited. While all students are expected to register on time, late registration periods are permitted within prescribed limits as set forth in the schedule. Late registration fees are assessed in accordance with the fee schedule cited under Special Fees.

Credit from a Junior or Community College

The maximum credit accepted from a Junior or Community College accredited by the North Central Association of College and Secondary Schools or other regional accrediting association will not exceed 72 semester hours. No more than 64 semester hours may be accepted from junior or community colleges which are not regionally accredited. No credit will be allowed for courses completed in a junior or community college subsequent to attainment of junior or higher rank by the student.

Non-Resident or Off-Campus Credit

One hundred (100) semester hours of the 128 required for graduation shall be completed in regularly scheduled campus courses. The 28 hours of permissible non-residence courses may be earned by extension, home study (correspondence), radio, television, special examination and/or military service. Credit earned in home study will be accepted only when earned in a regionally approved college.

Auditors

Students who are registered at Fairmont State College may be permitted to attend classes as auditors provided they shall have obtained the written permission of their advisers and of the instructors in the classes they desire to visit. No person who enrolls in any class as an auditor may in the same semester be considered as enrolled in this class for the purpose of obtaining credit. In no case whatsoever will auditing be regarded as a factor in obtaining credit.

Students eligible to attend classes as auditors may obtain proper permission blanks from the Registrar. Other persons, even if not registered students, may attend classes as auditors upon securing permission from the Registrar and from the instructors involved and upon payment of the regular fee. Auditors are required to complete the regular registration forms.

Special Examinations for Course Credit

Students may take special examinations to qualify for credit in certain courses. For further information as to the courses covered in this manner, students should contact the Student Personnel Office. All tests are administered by the College Testing Service.

Applications must be made to the Registrar for permission to take a special examination. To qualify for permission to take such an examination, an applicant must be enrolled or must have completed successfully one semester or summer session in Fairmont State College. The applicant must, in addition, establish eligibility in regard to his background in the area concerned. In order to gain college credit by special examination, the student must demonstrate better than average proficiency in the course. Examinations will not be given for courses in which the student has obtained a low grade previously.

Applicants must pay a fee of $3.00 for each special examination, if regularly enrolled at the time of taking the examination; otherwise the fee is $2.50 per semester hour of credit to be received. A receipt for the payment of the fee must be obtained from the cashier's office. No money will be refunded if any examination is failed. No examination may be repeated.

First semester freshmen may establish course credit by examination in the following courses without the payment of special examination fees: English 104—Written English—3 hours; French 101 and 102—Elementary French—6 hours; Home Economics 101—Principles of Clothing Construction—2 hours; Home Economics 201—Principles of Food Selection and Preparation—3 hours. An additional condition necessary for the granting of credit is enrollment by the student in the next higher course.

Advanced Standing

Based on high school record and performance on the ACT, the Registrar will determine eligibility for advanced standing and credit in English and French as follows:

English—No semester grade of less than B in each of four units of high school English and a standard score of 22 or higher on the English part of the ACT.

French—No semester grade of less than B in each of two or more units of high school French and a standard score of 22 or higher on the English part of the ACT. The student must also complete French 201 with a minimum grade of C.

Students may be granted advanced standing credit for any number of the mathematic courses numbered 115, 116, 315 by earning at Fairmont State College a grade of C or better in a higher numbered course from the sequence 116, 315, 316.

Students who complete a major or teaching field in French may establish credit for French 101 and 102 if they complete French 201 with a grade of C or better.

The Summer Session

Fairmont State College offers a ten-week summer session each summer. This session is made up of two terms of five weeks each. The requirements for admission and the character of the work offered are the same for the summer session as for the regular year.

All activities and facilities of the campus are available to students during the summer session. The student body is organized under its own leadership at the beginning of each session. A general program of social, recreational, and dramatic events is scheduled.

Special bulletins for the summer session are prepared for distribution. Those interested in working toward a degree, or in renewal of certificates, or in pre-professional courses, write for the Summer Bulletin. Address: Registrar, Fairmont State College, Fairmont, W. Va.

Evening Classes

Evening classes are operated for the benefit of persons whose employment makes attendance in regular day classes impossible. These classes are considered as work done in residence.

Extension Classes

Upon request, and when it is possible to provide suitable staff, Fairmont State College will offer off-campus courses to interested groups in the general area of the state it serves. Ordinarily, an enrollment of ten or more persons is necessary before any extension courses may be offered.

Preparatory Music and Art Programs

Music and art classes and private lessons taught by student and professional instructors are available to community, college, secondary and elementary students for an additional fee. Contact the Fine Arts Division office.

Catalog Policy

A student who enrolls at Fairmont State College shall follow the provisions of the catalog in use at the time of his admission or any subsequent catalog, providing he adopts all of the subsequent catalog. Transfer students will use the catalog current at the time of their admission to the other institution, provided that the graduation date would be not more than seven years from date of first enrollment in college.

Any student who has interrupted his schooling for more than one year will become subject to the provisions of the current catalog. An exception will be made if the interruption is caused by service in the armed forces.

All students seeking readmission as a result of academic suspension will be enrolled under the current catalog.

Expenses and Financial Assistance

CLASSIFICATION OF RESIDENTS AND NONRESIDENTS FOR ADMISSION AND FEE PURPOSES

General

Students enrolling in a West Virginia public institution of higher education shall be classified as resident or nonresident for admission, tuition, and fee purposes by the Registrar or other officer designated by the President. The decision shall be based upon information furnished by the student and all other relevant information. The Registrar is authorized to require such written documents, affidavits, verifications, or other evidence as are deemed necessary to establish the domicile of a student, including proof of emancipation, adoption, award of custody, or appointment of a guardian. The burden of establishing that a student is exempt from paying the nonresident tuition and fees is upon the student.

If there is a question as to residence, the matter must be brought to the attention of the Registrar and passed upon at least two weeks prior to registration and payment of tuition and fees. Any student found to have made a false or misleading statement concerning his residence shall be subject to dismissal from the college.

For purposes of resident and nonresident classifications, the word "parents" as herein used shall include legal guardians.

Residence Determined by Domicile

Domicile within the state means adoption of the state as a fixed permanent home and involves personal presence within the state. West Virginia domicile is presumed to be established upon the completion of at least twelve months of continued residence within the state prior to the date of first registration, provided that such twelve months residency is not for the purpose of attendance as an undergraduate or graduate student at any institution of learning in West Virginia.

Establishment of West Virginia domicile with less than twelve months residence prior to the date of first registration must be supported by proof of positive and unequivocal action such as the purchase of a West Virginia home, establishment of a permanent place of residence, full-time employment within the state, and assessment of property tax. Proof of one or more of these actions shall be considered only as evidence which may be used in determining whether or not a domicile has been established.

There must be no intent on the part of the person involved to return to another state or country.

Minors

The residence of a minor shall follow that of the parents at all times, except in extremely rare cases where emancipation can be proved beyond question. The residence of the father, or the residence of the mother if the father is deceased, is the residence of the unmarried or unemancipated minor. If the father and the mother have separate places of residence, the minor takes the residence of the parent with whom he lives or to whom he has been assigned by court order. The parents of a minor will be considered residents of West Virginia if their domicile is within the state.

An unemancipated minor student loses resident status twelve months after his parents have ceased to maintain a domicile in West Virginia.

Emancipated Minor

An emancipated minor may be considered as an adult in determining residence, provided satisfactory evidence is presented that his parents, or legal guardian, if living, do not contribute to his support and do not claim him as a dependent for federal government income tax purposes.

In the event that the fact of emancipation is established, the emancipated minor assumes all of the responsibilities of an adult to establish residence for tuition and fee purposes. Proof must be provided that emancipation was not achieved principally for the purpose of establishing residence for attendance at an institution of higher education.

An emancipated minor, orphan, or abandoned child who has been domiciled in West Virginia for at least one year following his emancipation and next preceding the date of registration may be classified as a resident for tuition and fee purposes.

Students Over Twenty-one Years of Age

A resident student twenty-one years of age is (1) one whose parents were residents of the state at the time he reached his majority and who has not acquired a domicile in another state, or (2) who, while an adult, has established a bona fide domicile in the State of West Virginia. Bona fide residence in West Virginia means that the student must not be in the state primarily to attend a college and he must be in the state for purposes other than to attempt to qualify for resident status.

Any nonresident student who reaches the age of twenty-one years while a student at any school or college in West Virginia does not by virtue of such fact attain residence in this state for admission or tuition and fee payment purposes.

A student who is classified as a resident at the time that he reaches the age of twenty-one shall continue to be classified as a resident provided that he retains a domicile in West Virginia and that he does not establish a domicile, or legal residence, in another state.

Marriage

The residence of a married woman is determined by the rules which would apply to her husband if he were to seek enrollment, except that a woman who would have been classified as a West Virginia resident immediately prior to her marriage may continue to be classified as a West Virginia resident if she continues to be domiciled in the state.

Military

An individual who is on active federal military service or an employee of the federal government may be classified as a resident for the purpose of payment of tuition and fees provided he had established domicile in West Virginia prior to entrance into federal service, that he entered the federal service from West Virginia, and that he has at no time while in federal service claimed, or established, a domicile in any other state. Sworn statements attesting to these conditions may be required. The wife and dependent children of such individuals shall also be classified as residents of the State of West Virginia for tuition and fee purposes.

Aliens

An alien who has entered the United States on a resident visa, or who has taken out first papers for citizenship, and who has established a bona fide residence in West Virginia by living in the state for at least twelve consecutive months immediately preceding registration may be eligible for resident classification, provided he is in the state for purposes other than to attempt to qualify for resident status as a student.

Higher Education Personnel

Full-time employees of the West Virginia Board of Regents and the institutions under its jurisdiction, full-time ROTC personnel assigned to the institutions, and their spouses and dependent children, shall be considered West Virginia residents for the purpose of the payment of tuition and fees.

Appeal Process

The decisions of the Registrar or other officer charged with the determination of residence classification may be appealed to the President of the institution. The President may establish such committees and procedures as he determines necessary for the processing of appeals. The decision of the President of the institution may be appealed in writing with supporting documentation to the West Virginia Board of Regents. The appeal will be reviewed by the State Committee on Residency which shall make recommendations to the Board for final decision. The members of the State Committee on Residency shall be appointed by the Board of Regents.

Payment of Tuition and Fees:

The regulations of the West Virginia Board of Regents provided that: "No financial credit of any type shall be extended to any individual either student or other, at any state college or institution. All colleges and institutions shall operate strictly on a cash basis with all payments and obligations being collected in advance. All tuition and fees must be collected in full for each semester on enrollment day for each semester."

Registration is not completed until a check covering payment of tuition, residence hall rent, and fees has cleared the bank upon which it was drawn. A late payment fee of $15 will be charged on each check returned for "insufficient funds" unless the student can obtain an admission of error on the part of the bank. The Business Office shall declare the fees unpaid and registration cancelled until the check has been redeemed and the additional charge paid.

Enrollment Fees (Tuition and Registration) Per Semester

	W. Va. Resident	Non-Resident
Full-time student (12 or more hours)	$116.00	$491.00
11 hours	110.00	471.75
10 hours	106.00	448.50
9 hours	102.00	425.25
8 hours	98.00	402.00
7 hours	62.50	280.25
6 hours	55.00	241.50
5 hours	47.50	202.75
4 hours	38.00	162.00
3 hours	31.00	123.75
2 hours	25.00	85.50
1 hour	18.00	47.25

Summer School is divided into two five-week sessions. Tuition and Registration Fees are determined by the number of hours for which a student is enrolled each term and whether he is a West Virginia resident or non-resident.

Cost of One Summer Session

No. of Hours for Which Enrolled	W. Va. Resident	Non-Resident
6 hours—one term	$ 60.00	$218.50
5 hours	56.00	195.25
4 hours	52.00	172.00
3 hours	38.00	125.75
2 hours	29.00	87.50
1 hour	20.00	49.25

Attendance Both Summer Sessions

There are certain charges payable only once whether a student attends one or both summer sessions (5 weeks each). Listed below is the cost of total tuition and registration fees for both summer sessions by combination of hours (1-6) for which enrolled for the two sessions.

No. of Hours for Which Enrolled	W. Va. Resident	Non-Resident	No. of Hours for Which Enrolled	W. Va. Resident	Non-Resident
6 & 6	$101.00	$414.00	4 & 4	$ 85.00	$325.00
6 & 5	97.00	394.75	4 & 3	81.00	288.75
6 & 4	93.00	371.50	4 & 2	72.00	250.50
6 & 3	89.00	335.25	4 & 1	63.00	212.25
6 & 2	80.00	297.00	3 & 3	75.00	250.50
6 & 1	71.00	258.75	3 & 2	66.00	212.25
5 & 5	93.00	371.50	3 & 1	57.00	174.00
5 & 4	89.00	348.25	2 & 2	57.00	174.00
5 & 3	85.00	312.00	2 & 1	48.00	135.75
5 & 2	76.00	273.75	1 & 1	39.00	97.50
5 & 1	67.00	235.50			

A receipt received at the time of payment will include an itemized statement of tuition and registration fees. A copy of the breakdown on tuition and registration fees may also be obtained in advance upon request.

Special Fees:

**Science Laboratory Fee	$ 5.00
Late Registration Fee:	
One to five days	$10.00
Graduation Fee (Inc. cap and gown)	10.00
Freshman Orientation Fee	1.50
Transcript Fee (First Transcript is furnished free)	1.00
Special Examinations for course credit (Regularly enrolled students)	3.00
Special Examinations for course credit (Non-enrolled students) per semester hour	2.50

Fees for Industrial Education

All courses in Industrial Education in which laboratory and demonstration materials are included will require an additional fee of $2.00 per credit hour. Students will pay the actual cost of personal projects constructed in laboratory classes.

* The term "resident" refers to classification for fee purposes only.

** Assessed each student enrolled in all science division laboratory courses. In event of unusual breakage, an amount to cover same may be assessed.

Refund Policy For Tuition And Fees:

A student who withdraws regularly from the college may arrange for a refund of his fees in accordance with the following schedule. Refunds are determined from the first day of the school term which begins officially with Freshman Orientation Week. The official withdrawal date is certified by the Registrar.

Semester	
During first and second weeks	90%
During third and fourth weeks	70%
During fifth and sixth weeks	50%
Beginning with seventh week	No Refund
A Summer Term	
During first day	90%
During second day	70%
During third day	70%
During fourth day	50%
During fifth day	50%
Beginning with second week	No Refund

Residence Hall Expenses Per Semester—Men and Women

Rent:	
Morrow, North, Pence Halls	$162.00 plus tax
Morgan Hall	220.00 plus tax
Garden Lane Apartments	302.00 plus tax
Board:	
All residents of Morrow, North, and Pence Halls are required to purchase a meal ticket for use in the College Dining Hall (May be purchased twice in a semester @ $135.00 plus tax)	$270.00 plus tax

Breakage Fee: This fee, less charge for any damage, is returned at the end of occupancy period	$ 20.00
Linen Service: All residents of Morgan, Morrow, North, and Pence Halls are required to take the linen service	$ 16.00 plus tax
Key Deposit: This is returned when the student vacates his room or apartment	$ 1.00
Social Fee: This fee is to be paid when a student moves into a residence hall. It covers the cost of the local newspaper, **TV Guide**, television cable, Christmas party, and various other expenses of the hall.	

All rates are subject to change without notice.

Payment of Room and Board

Residence hall rent plus tax and a twenty-dollars breakage fee must be paid on or before registration day. Board plus tax must be paid in advance of specified dates either on a semester or half-semester basis.

Room rent plus tax, board plus tax, and a breakage fee for a summer term must be paid in full by registration day.

Residence Hall Reservations

Applicants for residence hall reservations must pay an $80.00 deposit at the time the application is filed with the College. (This amount is subject to change at any time.) The deposit will be credited to the applicant's residence hall rent account. All applications must be filed with the Office of Student Affairs.

Notice of cancellation of room reservations must be received by the Office of Student Affairs by May 1. Otherwise the total amount of $80.00 will be forfeited. (Exception: Should the applicant be denied admittance to the College, a full refund will be made without regard to dates.)

Not more than ten per cent of available living space in any campus dormitory may be assigned to out-of-state students.

FINANCIAL ASSISTANCE

Loan Funds, Scholarships, and Other Student Aid

The scholarship and loan funds of Fairmont State College are available to worthy undergraduates who need assistance in meeting their college expenses. All funds are administered by the Financial Aids Committee, unless otherwise indicated. Applications for scholarships and loans should be made to Chairman, Financial Aids Committee.

Philosophy of Financial Aid

1. All academically capable students should attend college.

2. Any student who needs financial assistance should be willing to work part-time after the first semester's attendance at Fairmont State College.

3. Financial assistance is not designed to support luxuries nor should a student expect assistance because he wants to be married.

4. After one semester's attendance and an overall C average, no student need leave school for financial reasons.

5. Financial assistance is not intended to replace the responsibility of the parents. It is to supplement that which the home can and should provide.

Loans

The loan program at Fairmont State College serves three functions:

1. To supplement the assistance needed by scholarship students.

2. To provide assistance to academically superior students who do not qualify for a scholarship.

3. To provide emergency short-term loans (not to exceed 90 days) to students who have a minimum C average.

To qualify for a loan a beginning student must:

1. Meet all entrance requirements as prescribed by the West Virginia Board of Regents and by Fairmont State College.

2. Have an overall C average in all previous work if he is a transfer student.

3. Provide evidence of financial need by completion of prescribed application.

LOANS AVAILABLE

The National Defense Student Loan Program

Any student interested in entering Fairmont State College who can meet the above qualifications may apply.

Important facts pertaining to this loan are:

1. The loan funds are allocated by the Federal Government on a matching basis. The College must provide 10 percent of the total amount to be loaned each year. This amount is to be determined by the United States Office of Health, Education and Welfare.

2. The College is limited as to the amount it can lend each year.

3. An individual loan will be based on the actual need for basic expenses: tuition, room and board, books, fees, etc. The maximum loan is $1000 for the academic year. A student having a loan will be expected to work, if needed, as a student employee on campus after one semester's attendance at Fairmont State College.

4. There is no interest on a loan until nine months after the applicant ceases to be at least a half-time student in this or some other institution of higher education. Simple interest of 3 percent per year begins on the unpaid balance at this time. A maximum of ten years may be allowed to repay the amount borrowed, depending upon the amount owed.

5. The loan, and interest thereon, of any borrower who serves as a full-time teacher in an approved elementary school, secondary school, or college within

the territorial limits of the United States shall be cancelled at the rate of 10 percent of the amount of the loan plus interest thereon for each year of teaching for the first five years of teaching service.

Additional teacher cancellation benefits are available for those who are willing to teach in an area designated by the Commissioner of Education to be an economically deprived area. This cancellation amounts to 15 percent per year plus interest, and the full amount of the loan may be cancelled. No more than 25 percent of the schools in a given school district can come under this special provision.

In effect, the provisions of this loan make the loan a scholarship, partial or complete, for teachers.

6. Students who serve in the military forces, Peace Corps, or VISTA, receive deferred repayment and no interest for a maximum of three years while serving in one or another of the above.

7. Any student receiving this loan must sign an "Oath of Affirmation," which states, "I do solemnly swear that I bear true faith and allegiance to the United States of America and will support and defend the Constitution and laws of the United States against all its enemies, foreign and domestic."

8. Notes must be co-endorsed by parent or guardian if the student is under 21 years of age.

For further information and application blanks write:

Chairman, Financial Aids Committee
Fairmont State College
Fairmont, West Virginia 26554

Health Professions Scholarship and Loan Program

1. The Health Professions Loan follows the same guidelines as are listed under National Defense Student Loan above. It has cancellation provisions for nursing graduates who work in public health facilities and the same provisions for cancellation apply to this loan as to the National Defense Student Loan indicated above.

2. The Health Professions Scholarship follows the same financial need guidelines as are indicated under the Educational Opportunity Grant Program which appears below.

The Claude Worthington Benedum Loan Fund

This loan is available to West Virginia residents only. The maximum loan is $300 in a school year. There is no interest while a full-time student at Fairmont State College. Complete repayment must be made within three years after graduation or ceasing to be a full-time student with an interest rate of 4 percent the first year and 6 percent the second and third years. The note must be co-endorsed by a parent or guardian.

Federally Insured or Guaranteed Loans

These loans are made to students by banks. The College's responsibility is to certify enrollment and academic good standing. Interested students should request current financial aid brochure for details on these loans as regulations governing them change frequently and vary according to state programs.

Educational Opportunity Grant

The Higher Education Act of 1968 provides grants to students from low income families. The amount of the grant can range from $200 to $1000 depending upon need as evidenced by the family financial statement. These grants are made in the form of a package aid award which includes an Educational Opportunity Grant, a loan, and student employment. One hundred percent financial aid can be provided if the family is not capable of making any contribution. All financial aid applications are reviewed to determine whether or not each applicant might be eligible for this form of assistance. While this program has been in operation for four years, the Act of 1968 placed greater restriction on the college in awarding these grants. The following is a summary of federal guidelines for selecting Educational Opportunity Grant recipients:

A. A gross family income of $6,000 or less per year, or

B. A gross family income of $7,500 or less per year in a family with two working parents, or

C. A family whose head is self-employed (typically a farmer or small businessman) and whose adjusted income is the equivalent of a salaried worker's gross income of $6,000 or less, or

D. A large family whose income-dependent correlation is in accord with the chart below:

If the gross family income is within the range:	The minimum number of dependent children necessary to qualify for an E.O.G. is:
$6001 - $6200	6
6201 - 6600	7
6601 - 6900	8
6901 - 7200	9
7201 - 7500	10
7501 - 7700	11
7701 - 7900	13

Crystal-Miller-Morris Short Term Loan

This loan is an emergency loan which is not to exceed $300 and which must be repaid within 90 days. Interest is $.25 per month. The note must be co-endorsed by a parent or guardian. The applicant must have a C average or better and have attended Fairmont State College at least one semester.

SCHOLARSHIPS

Fairmont State College does not have sufficient scholarships to award to all academically deserving students who also have financial need. The Financial Aids Committee examines the applicant's academic background (high school transcript and ACT scores) first and then searches for evidence of financial need.

To be eligible for a scholarship, a student must:

1. Be a resident of West Virginia and a graduate of a West Virginia high school.

2. Meet all entrance requirements as prescribed by the West Virginia Board of Regents and by Fairmont State College.
3. Rank in the upper 10 percent of the high school graduating class.
4. Apply by April 15.

Scholarships Available

West Virginia Board of Regents Teacher Scholarships

The scholarships are for entering Freshmen and they pay tuition and registration fees ($75 per semester) for four years so long as a satisfactory academic average is maintained. Five are awarded to prospective elementary teachers and five to prospective secondary teachers each year. The recipients are obligated to remain in West Virginia and teach for four years after graduation or repay the amount of money advanced.

West Virginia Board of Regents General Scholarships

These scholarships are for entering Freshmen and they pay tuition and registration fee ($75 per semester) for four years so long as a satisfactory average is maintained. The number to be awarded is determined by the school enrollment the previous year. No obligation is placed on the recipient of this scholarship.

Claude Worthington Benedum Freshman Scholarship

These scholarships are for the freshmen year only. The amount is $100 each semester so long as a satisfactory average is maintained. The number to be awarded each year is determined by the amount of money received from the Benedum Foundation.

Circle W Club Scholarship

This scholarship is awarded annually to the outstanding academic student whose parent or legal guardian is a member of the Circle W Club of Local IUE 627. The recipient is to attend Fairmont State College and will receive sufficient financial assistance to pay tuition, fees, and books for up to four years, so long as a satisfactory average is maintained.

Junior League of Fairmont, Incorporated—Memorial Scholarship-Loan Fund

Realizing the importance of education for the advancement of our community, state and nation, the Junior League of Fairmont established a Scholarship-Loan Fund to provide financial assistance to needy students. The Fund, started in April, 1962, is to be a continuous project of the League. The money is to be used in the manner in which Fairmont State College feels it will best serve the needs of worthy students. The Financial Aids Committee will select the recipients.

Non-West Virginia Residents

Fairmont State College recommends that a non-W. Va. resident explore the possibilities for assistance under the Higher Education Authority of his state before applying directly to the College. Most states have such programs and the high school guidance counselor or home town bank should have the necessary information.

Working Scholarships

Among the several work scholarships available are:

(1) Assistant to the Director of Public Relations, cash value $100 per semester.

(2) Director of Sports Publicity (preparation of sports news), cash value $70 per semester. Those interested must apply in person to the Director of Public Relations.

(3) Editor of **The Columns**, cash value $200 per year.

(4) Business Manager of **The Columns**, cash value $200 per year.

(5) Editor of **The Mound**, cash value $200 per year.

(6) Business Manager of **The Mound**, cash value $200 per year.

Part-Time Employment

Opportunities are provided for many students who seek financial assistance through part-time employment. A registry of part-time jobs, available both on and off campus, is maintained in the Office of Student Personnel. On the college campus, students find employment in clerical work, library work, assisting instructors, kitchen and dining room work, maintenance, and other similar activities.

The Office of Student Affairs assists students in finding part-time employment off campus. Many students work in stores, factories, garages, filling stations, and private homes.

Regulations for Student Aid and Other Employment

1. Students employed on the student aid basis may not be employed ordinarily for more than sixty-five hours in any one month. In exceptional circumstances, and when approved by the Financial Aids Committee, students may be employed to a maximum of ninety hours per month.

2. Students enrolled for more than six semester hours may not be employed by the College except on a student-aid basis.

3. Full-time employees of the College may not enroll for any academic work other than that obtainable outside of their regular work schedule.

4. The awarding of scholarships, student loans, and student employment, including assistance to athletes, is handled through the Office of Student Affairs. All employed students, including athletes, are required to give full and honest work for pay received.

5. First semester freshmen are not employed on campus nor recommended for employment off campus. The position of the College is that students should not work during the first semester while they are making the adjustment to college life.

Academic Information

DEGREES

The degrees granted by Fairmont State College are Bachelor of Science, Bachelor of Arts, and Bachelor of Arts in Education. For each degree 128 semester hours of credit are required. No student shall be awarded more than one baccalaureate degree. A certificate of Associate in Arts or Associate in Science is also granted upon successful completion of from 64-72 semester hours in the two-year curricula.

The following system of grading is used within the institution:

A—Superior, given only to students for exceptional performance.

B—Good, given for performance distinctly above the average in quality.

C—Average, given for performance of average quality.

D—Lowest possing grade for performance of poor quality.

F—Failure. Course must be repeated if credit is to be received.

FIW—Failure because of irregular withdrawal.

I—Incomplete, given to a student who misses a part of the course for a reason the instructor recognizes as a valid excuse for delay in completing the assignments. Unless the work missed is completed within a year from the date the mark is recorded, the I automatically changes to an F.

WF—Withdrew Failing, from one class or from college.

WP—Withdrew Passing, from one class or from college.

CR—Credit. Does not affect quality points.

NC—No Credit. Does not affect quality points.

Quality Points

The quality of a student's work is indicated by quality points.

Candidates for graduation must have at least twice as many quality points as semester hours attempted; that is, a point-average of 2.00 on all college work and on all work completed at Fairmont State College. Quality points for grades A, B, C, D, are computed as follows:

A—Four (4) quality points for each semester hour of credit.
B—Three (3) quality points for each semester hour of credit.
C—Two (2) quality points for each semester hour of credit.
D—One (1) quality point for each semester hour of credit.

A student's grade average is determined by dividing the number of his quality points by the number of credit hours he has scheduled. No quality points are attached to grades F, FIW, and WF, but the credit hours for the courses in which these grades are received will be used in computing his grade average.

In order to be graduated, a candidate for a degree must have maintained a quality point average of 2.00 or better in all college courses and in all credit earned at FSC. An average of 2.00 must also be maintained in the major and minor fields of study. **If the student is in teacher education, he must attain an average of 2.20 in each teaching field and/or subject specialization.**

It is the student's responsibility to keep informed of his quality point standing. This information can be obtained at any time from the Registrar.

Grades earned in other institutions shall not be used to make up a deficiency of quality points in this institution.

It is the student's responsibility to keep informed of his quality point standing. This information can be obtained from the Registrar.

Credit—No Credit Option

Any student who has completed 58 or more semester hours of credit may elect one course per semester on a credit — no credit basis, such courses to be considered as part of the regularly scheduled load. A maximum of 15 semester hours may be completed under this option.

Courses selected must not be included in the general studies requirements, must not be in the student's major or minor or related courses for non-teachers, must not be in 7-12, 1-12, 7-9, 1-9, the diversified field, and professional education for teacher education students.

Credit — no credit earned under this option will be recorded but will not be reflected in the quality point index. Credit courses will count toward graduation.

Selection of a course for credit — no credit must be made at registration with the approval of the student's academic adviser and may not be changed after the close of the registration period.

Classification of Students

Students who have completed the high school or a secondary course and not more than 25 hours of work are classified as freshmen.

Students who have completed 26 hours but not more than 58 hours of college work are classified as sophomores.

Students who have completed 58 hours but not more than 90 hours of college work are classified as juniors.

Students who have completed 90 hours or more of college work are classified as seniors.

Numbering of Courses

Courses for freshmen (100 series) and sophomores (200 series) constitute the lower level of curriculum. Courses numbered 300-499 are primarily for juniors and seniors. All General Studies requirements consist of lower level courses which should be completed as far as possible by the end of the sophomore year.

Assignments and Credits

1. Semester Loan: Students must petition the Registrar for permission to carry more than 18 semester hours. To be eligible for permission, a student must have an overall B average or a B average for the preceding semester. Exceptions may be made if the student is in the last semester before graduation or before the Block.

2. Late Registration Fees. See schedule of fees for late registration. Late registrants often fail to obtain satisfactory schedules, for the policy of the College is to give priority to students who register on the dates for regular registration.

3. Schedule Changes: Students may not add new classes to their schedule after the period of registration has ended.

4. Withdrawal from College: A student desiring to withdraw from the College will apply at the Registrar's Office. Here forms will be obtained, which when completed with the proper signatures and returned to the Registrar's

Office, will constitute an official withdrawal. The instructor records on the Final Grade Report to the Registrar, a W for students withdrawing during the first one-third of a semester or one-third of a summer term. In case the official drop notice is issued after one-third of the semester or term, the instructor will record either WP or WF at the end of the period of enrollment.

5. Withdrawal from Classes: During the first third of a semester or term, upperclassmen (26 or more hours of earned credit) may drop classes with grades of **W** being recorded. From the end of one-third of a semester or term to the end of one-half of a semester or term, upperclassmen may drop one or more classes with grades of **WP** or **WF** (depending upon grade being earned at the time) being recorded. After the end of one-half of a semester or term, upperclassmen may not withdraw from individual classes. During the first third of a semester or term, freshmen (1 to 25 hours of earned credit) may drop classes with the grade of **W** being recorded. From the end of one-third of a semester or term to the end of two-thirds of a semester, freshmen students may drop one class only. If approved, a grade of W will be recorded for the dropped class. If additional classes are dropped during this period, grades of *WF* will be recorded. After the end of two-thirds of a semester or term, no withdrawals from individual classes may be made. Such grades will be used as a part of the student's record for the semester in determining his eligibility for enrollment later.

6. Repeating A Course

Note: The following regulation applies to the repeating of courses for graduation purposes. It should be noted, however, that there is a significant difference in the repeat regulation insofar as teacher certification is concerned.

If a student earns a grade of **D** or **F** on any course taken no later than the semester or term during which he attempts the sixtieth semester hour, and if he repeats this course prior to the receipt of a baccalaureate degree, the original grade shall be disregarded and the grade or grades earned when the course is repeated shall be used in determining his grade point average. The original grade will not be deleted from the student's record.

A student may not repeat a course in which he had earned a "C" or better.

Students desiring teacher certification are subject to a different version of the repeat regulation. In effect, the above regulation applies with two substantial exceptions: (1) To be eligible for repeating **D** or **F** grades under the circumstances noted in the preceding paragraph (i.e., first sixty hours attempted), a student must have entered college for the first time in the fall of 1968 or after; (2) If the course is repeated more than once, all grades earned for the course shall be used in determining the quality point average.

7. Minimum Residence Requirements for Graduation: For a degree, at least one year's work in residence is required, one semester of which must be in the senior year. A "year of residence" must represent not less than 32 week's work in residence and 32 hours credit. A semester is defined as a minimum of 16 weeks and 16 hours credit.

Exception is made in the case of any student who has completed three years of required work in Fairmont State College and who wishes to complete the senior year by substituting approved credit earned subsequently in a college of medicine or dentistry.

8. Application for Graduation: Candidates for graduation must make official

application for a degree at least 45 days before Commencement Day. Applications will be filed with the Registrar.

9. Assignment and Credits: Regularly enrolled students who desire to complete work at another accredited institution on a transient basis must secure written permission of the Registrar. Transient credit completed without permission will not be accepted.

Attendance and Absences

Each student is responsible for familiarizing himself with the college absence policies which are to be found in the published *Student Personnel Policies.*

Advisor System

Each student is assigned an academic advisor when he first enrolls at the College. If the student desires to change his major field of study, he should contact the Associate Dean of Academic Affairs for reassignment. Students who are not ready to select a major upon entrance will be assigned to special advisors. It is to the academic advisor that a student should take problems relating to degree requirements, pre-registration, and registration.

Reports To Students

The grades of all students are reported by each faculty member to the Registrar at the middle and end of the semester. Faculty advisors are provided complete grade reports at each reporting period. Students receive grade reports at mid-semester and again at the end of the semester. The grade reports of freshmen earning one or more grades of "D" or lower are forwarded to the parents at mid-semester by the Dean of Student Affairs. Mid-term grade reports are not made during summer school.

Probation and Suspension

1. A student whose cumulative academic record shows a deficit of 10 or more quality points automatically is placed on probation.

2. A student is removed from probation when he completely removes his grade point deficiency and achieves an average of 2.00 or better.

3. Students who have been on academic probation for one semester or longer and who are 20 or more points deficient will be suspended. The suspension list is compiled each summer on the basis of student records at the conclusion of the spring semester.

4. A student who has been suspended may petition to be readmitted 12 or more calendar months after his suspension or last attendance. If readmitted, he is automatically on probation and must reduce the quality point deficiency by at least 6 points each semester, or be suspended.

5. Two suspensions from any institution(s) of higher education are final.

6. The status of any student transferring from another institution of higher education will be determined in accordance with the above rules.

English Performance Evaluation

All students who are candidates for baccalaureate degrees must attain a grade of C or above in English 108 in order to prove their competence in the use of the English language. This is a requirement for graduation.

Dean's List

Students who are registered for fifteen or more hours and receive a grade point average of 3·2 are considered honor students and named to the Dean's List.

Graduation With Honors

Candidates for graduation who have achieved special distinction in academic work are graduated with honors. Honors are determined by the cumulative quality point average of a student's work at graduation. Three grades of honors are recognized: **cum laude** for a point average of 3.0 to 3.49; **magna cum laude** for a point average of 3.50 to 3.75; and **summa cum laude** for a point average of 3.75 or better. Averages are based upon the entire academic record of the student, excluding grades earned during the last semester or term.

General Regulations

Each student is responsible for familiarizing himself with the published *Student Personnel Policies* concerning student rights and responsibilities and matters of academic dishonesty such as cheating and plagiarism.

Transcripts

Every student at Fairmont State College is entitled to one official transcript of his record free; for each additional copy a fee of one dollar ($1.00) will be charged. **No student who fails to meet his financial obligations to the College, or any department of the college, will be given a transcript.**

An application for a transcript of credit should furnish the date of last attendance at Fairmont State College, social security number, and a married woman should give both her maiden and married names. All requests for transcripts should be sent directly to the Registrar.

Requirements for Bachelor of Arts and Bachelor of Science Degrees

The Bachelor of Arts in Education requirements for teaching fields and specializations and various Two-Year curricula are also included in this section under the appropriate academic discipline.

Candidates for the Bachelor of Arts or Bachelor of Science degree must complete the General Studies Requirements and a major and a minor. Students majoring in Engineering Technology are not required to have a minor.

Degrees are offered as follows:

Bachelor of Arts Degree

- Art
- Chemistry
- English
- History
- French
- Mathematics
- Music
- Political Science
- Psychology
- Sociology
- Speech and Drama

Bachelor of Science Degree

- Biology
- Business Administration
- Chemistry
- Engineering Technology
- Home Economics
- Mathematics
- Office Administration
- Physical Education
- Recreation

All degrees granted by Fairmont State College have the same minimum requirements with regard to semester hours credit and quality point average.

The minimum credit is 128 semester hours with an average of 2.0 quality points. In all cases the quality point average for a major or minor must be 2.0 or better.

General Studies requirements may also meet major or minor requirements. No course, however, may be counted more than once in meeting the semester hours required for graduation. For example, general studies requirements in English will also satisfy requirements for a major or minor in English.

Twelve hours of one foreign language is a general requirement for the Bachelor of Arts. Three hours of this requirement may be waived for each unit of the language presented as entrance credit, provided that the student is competent to continue the study of the language at the appropriate college level.

GENERAL STUDIES REQUIREMENTS FOR THE BACHELOR OF ARTS AND THE BACHELOR OF SCIENCE DEGREES

English 104,* 108,* 250, 260		12
Fine Arts		2
Art 255	2	
or Music 205	2	
History and Social Science		12
Economics 200 or 201	3	
Geography 210	3	
History 107	3	
History 108	3	
History 111	3	
History 112	3	
Political Science 103	3	
Psychology 101	3	
Sociology 110	3	
Language (A.B. degree only)		12
French or German 101, 102, 201, 202 (Another foreign language may be substituted with permission)	12	
Physical Education Any basic activity course.		1
Science and Mathematics		6
Biology 101, 102	6	
Chemistry 101, 102	8	
Chemistry 105, 106	10	
Geology 101, 102	6	
Mathematics	6	
Physical Science 201, 202	6	
Physics 101, 102	8	
Speech 101		3

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* Laboratory work will be required of those who do not meet certain minimum standards in English 104 and 108, and performance in the laboratory will constitute part of the grade in the course. A grade of C or above in English 108 is a requirement for graduation.

ART

(DIVISION OF FINE ARTS)

Fairmont State College offers studies in art leading toward the degrees of Bachelor of Arts in Art for non-teachers and Bachelor of Arts in Art Education for teachers.

The art curriculum and activities support a commitment which is threefold: (1) to provide the highest professional education for the creative artist, the art teacher, and the scholar of the arts; (2) to offer college students a program of general, liberal education which leads to an appreciation of aesthetic values; (3) to play a major role in the cultural life of the college campus, the community and the region.

The members of the Art Department faculty are professional artists, exhibiting their work in state, regional and national exhibitions. Because of an excellent student-teacher ratio, the instructors are able to spend much time with individual instruction and counseling. If the student is a candidate for the teaching degree, he is not only trained in the skills of the creative artist but is also given the background and training that will enable him to relate to and communicate with students. If a candidate for the Bachelor of Arts in Art degree, the student obtains the competencies that will ensure him every opportunity for success in graduate school or as a professional artist.

Specific Requirements in Art
Bachelor of Arts Degree

MAJOR			37 Sem. Hrs.
History of Art			11
255	History and Appreciation of Art	2	
278	Ancient and Medieval Art	3	
377	Italian and Northern Renaissance Art	3	
378	Nineteenth Century and Contemporary Art	3	
Studio Work Selected from two or more of the areas listed below:			25
Ceramics and Sculpture			
283	Modeling and Sculpture	2-3	
284	Modeling and Sculpture	2-3	
383	Ceramics	2-3	
384	Ceramics	2-3	
464	Studio in Ceramics	2-3	
465	Studio in Sculpture	2-3	
Design			
*140	Art Structure and Applied Design	3	
*141	Art Structure and Applied Design	3	
Drawing			
*142	Drawing	2	
241	Drawing from Life	2	
242	Drawing and Painting from Life	3	

Painting

261	Painting	2-3
262	Painting	2-3
361	Painting in Oil	2-3
362	Painting in Oil	2-3
363	Painting in Watercolor	2-3
364	Painting in Watercolor	2-3
463	Studio in Painting	2-3

Exhibits 1

*470	Senior Exhibit	1

* Required Courses

MINOR IN ART 24 Sem. Hrs.

History of Art Courses (See Above)	5
Studio Work Courses (See Above)	19

Curricula For Teaching Fields And Specializations

Art

Art Comprehensive Grades 1-12

Required Courses 47 Sem. Hrs.

*Art 140	Art Structure and Applied Design	3
*Art 141	Art Structure and Applied Design	3
*Art 142	Drawing	2
*Art 241	Drawing from Life	2
Art 242	Drawing and Painting from Life	3
*Art 255	History and Appreciation of Art	2
*Art 261	Painting	3
Art 278	Ancient and Medieval Art	3
Art 283	Modeling and Sculpture	3
*Art 353	Elementary Art Education I	2
Art 354	Elementary Art Education II	2
Art 363	Painting in Watercolor	3
Art 377	Italian and Northern Renaissance Art	3
Art 378	19th Century and Contemporary Art	3
Art 383	Ceramics	3
Art 470	Senior Exhibit	1
Electives		6

At least (3) three elective hours must be selected from: Art 284, 384, 464, or 465.

Art 431	Methods and Materials in Teaching Art Taken during the Block.	2

Art Single Teaching Field Grades 7-12

Required Courses 38 Sem. Hrs.

*Art 140	Art Structure and Applied Design	3
*Art 141	Art Structure and Applied Design	3
*Art 142	Drawing	2
Art 241	Drawing from Life	2
*Art 255	History and Appreciation of Art	2
*Art 261	Painting	3
Art 278	Ancient and Medieval Art	3

Art 283	Modeling and Sculpture	3
*Art 353	Elementary Art Education I	2
Art 354	Elementary Art Education II	2
Art 363	Painting in Watercolor	3
Art 377	Italian and Northern Renaissance Art	3
Art 378	19th Century and Contemporary Art	3
Art 383	Ceramics	3
Art 470	Senior Exhibit	1

Art Subject Specialization Grades 1-9 or 7-9

Required Courses 28 Sem. Hrs.

*Art 140	Art Structure and Applied Design	3
*Art 141	Art Structure and Applied Design	3
*Art 142	Drawing	2
*Art 241	Drawing from Life	2
*Art 255	History and Appreciation of Art	2
*Art 283	Modeling and Sculpture	3
*Art 353	Elementary Art Education I	2
*Art 354	Elementary Art Education II	2
*Art 363	Painting in Watercolor	3
Electives		6

* Courses marked with an asterisk must be completed before admission to the Professional Block.

Courses of Instruction

Art

(Division of Fine Arts)

140. **Art Structure and Applied Design** Three hours

Introductory course to the principles of design applicable to various media and techniques used in studio problems.

141. **Art Structure and Applied Design** Three hours

Further study of the principles of design, techniques and media with emphasis on the individual's creative development.

142. **Drawing** Two hours

The development of technical skills in the use of various media for a fundamental knowledge stressing observation, memory training, and composition.

241. **Drawing from Life** Two hours

Drawing from the posed model accompanied by analytical studies of anatomy.

242. **Drawing and Painting from Life** Three hours

Drawing and painting the figure as a means of individual expression. PR: 241 or instructor's consent.

255. **History and Appreciation of Art** Two hours

Considers the social and historical backgrounds and modern developments in various art fields.

261. **Painting** Two-Three hours

Introductory course in painting, exploring various painting media and techniques. PR: 140, 141, 142 or instructor's consent.

262. **Painting** Two-Three hours

Continuation of 261 emphasizing individual creative development. PR: 261 or consent of instructor.

278. **Ancient and Medieval Art** Three hours

History of Art from Prehistoric times to 1400 A.D. An analysis of the various artistic expressions resulting from the philosophic, religious and sociological conditions.

283. **Modeling and Sculpture** Two-Three hours

Introductory course using clay modeling, plaster, and metal sculpture.

284. **Modeling and Sculpture** Two-Three hours

Advanced work in various sculptural media: metal casting, carving, constructions, etc. PR: 283 or consent of the instructor.

341. **Graphics** Two-Three hours

Introduction to various techniques in printmaking as an artistic expression. PR: 142 or consent of instructor.

352. **Kindergarten-Primary Art** Two hours

Experiences and theory designed to prepare students to teach art on the kindergarten-primary level.

353. **Elementary Art Education I** Two hours

Directed experiences in two and three dimensional media such as, drawing, painting, poster, sculpture, and design using various media suitable for children.

354. **Elementary Art Education II** Two hours

The theories, philosophy, and methods of teaching art education. Experiences supplemented—with references to the needs of students in elementary teaching.

361. **Painting in Oil** Two-Three hours

Development of individual expression in painting. PR: 262 or consent of instructor.

362. **Painting in Oil** Two-Three hours

Continuation of 361. PR: 361 or instructor's consent.

363. **Painting in Watercolor** Two-Three hours

Introductory course in the fundamentals and techniques of watercolor. PR: 140, 141, 142 or instructor's consent.

364. **Painting in Watercolor** Two-Three hours

Continuation of 363 emphasizing individual creative development. PR: 363 or consent of instructor.

377. **Italian and Northern Renaissance Art** Three hours

History of painting, sculpture, architecture, and the minor arts in Italy, the Netherlands, Germany, Spain, France, and England from circa 1400 A.D. to the 19th century. PR: Art 255.

378. **Nineteenth Century and Contemporary Art** Three hours

History of art from the 19th century to the present with an analysis of art movements. PR. Art 255.

383. **Ceramics** Two-Three hours

Introduction to basic ceramic techniques: hand construction, potters' wheel, glazing and kiln firing.

384. **Ceramics** Two-Three hours

Advanced work in ceramic sculpture, wheel thrown ceramics, glaze theory, kiln firing and kiln construction. PR: 383 or instructor's consent.

431. **Methods and Materials in Teaching Art** Two hours

Planning and application of problems for junior and senior high schools. Coordinated with the Education Department and the public schools. Designed for students who are practice teaching or for teachers in service. Taken during the Block.

461 **Advanced Painting in Oil** Two-Three hours

PR: Art 362 or consent.

462. **Advanced Painting in Oil** Two-Three hours

PR: Art 461 or consent.

463. **Studio in Painting** Two-Three hours

The student is permitted to select the medium and then experimentally exploit all the technical and creative possibilities that it permits.

464. **Studio in Ceramics** Two-Three hours

The student is permitted to select the medium and then experimentally exploit all the technical and creative possibilities that it permits.

465. **Studio in Sculpture** Two-Three hours

The student is permitted to select the medium and then experimentally exploit all the technical and creative possibilities that it permits.

470. **Senior Exhibit** One hour

Required of every art major during his senior year: to organize a formal gallery exhibition of works selected from his college work.

BIOLOGY

(Division of Science)

The Department of Biology, Division of Science, program is designed to service both undergraduate non-majors and those pursuing major areas of study in Biological Science leading to either the A.B. in Education or the Bachelor of Science degrees as well as preparatory programs in pre-professional areas. The Department employs a highly specialized staff capable of instructing in specialty areas from Classical Biology to Molecular Biology. Field research and field studies are stressed highly as an integral part of the overall program. Facilities and equipment are available for independent research by students and/or staff.

The Department of Biology is located on the fourth floor of Hunt-Haught Hall which was completed in the summer of 1971. This modern facility consists of eight student laboratories, three research rooms, a photographic dark-room, an animal room, and a plant house with modern equipment including closed-circuit TV.

The biology curriculum for both the Bachelor of Science and A.B. in Education has recently been revised so that students are required to complete 8 basic courses in biology designed to provide a comprehensive understanding of biology. Electives may be chosen at the student's discretion.

Advanced undergraduate students are regularly employed as paid laboratory assistants in most classes.

Bachelor of Science Degree

MAJOR			57-59 Sem. Hrs.
Required courses in Biological Science			28 Sem. Hrs.
Biology 101	Introduction to Biology	3	
102	Introduction to Biology	3	
220	Invertebrate Zoology	4	
221	Vertebrate Zoology	4	
230	General Botany	4	
295	Cell Biology	3	
370	Plant Physiology	4	
380	Introduction to Genetics	3	
Electives in Biological Science			10 Sem. Hrs.
Required related courses			19-21 Sem. Hrs.
Chem. 101, 102	General Chemistry	8	
or			
Chem. 105, 106	Chemical Principles	10	
Physics 101, 102	Introduction to Physics	8	
Mathematics 112 or higher		3	
MINOR			47-49 Sem. Hrs.
Required courses — same as Major			28 Sem. Hrs.
Required related courses (see above)			19-21 Sem. Hrs.

Curricula for Teaching Fields and Specializations in Biology

Biological, General Science Comprehensive Grades 7-12			58 Sem. Hrs.
*Required in Biological Science Same as in B.S. Major			28 Sem. Hrs.
Electives in Biological Science			7 Sem. Hrs.
Required related courses			23 Sem. Hrs.
*Chem. 101, 102	General Chemistry	8	
*Physics 101	Introduction to Physics	4	
Geology 102	General Geology	3	
Physics 202	Astronomy	3	
*Mathematics 112 or higher		3	
Science 431	Methods and Materials in Teaching Science (Offered only in the Spring Semester)	2	
Biological Science Single Teaching Field grades 7-12			50 Sem. Hrs.

Same as the comprehensive program with the following exceptions:
Electives in Biological Science — 4 hrs.
Omit Physics 202.

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* Courses marked with an asterisk must be completed before admission to the Professional Block.

Courses of Instruction

Biology

101. **Introduction to Biology** Three hours

Introductory studies concerning the following areas: chemical and physical properties of the cell, genetics, higher and lower plants and some attention given to ecological relationships. Two lectures and one two-hour laboratory per week.

102. **Introduction to Biology** Three hours

A study of invertebrate and vertebrate animals emphasizing basic life functions and their interrelationships to a changing environment. Two lectures and one two-hour laboratory per week.

200. **Ornithology** Three hours

Lecture, field and laboratory studies on the anatomy, identification, migration, nesting and food habits of birds. Consideration is given to the economic, aesthetic and ecological significance. Two lectures and one two-hour field and/or laboratory periods per week. PR: 101, 102.

210. **Field Studies in Biology** Three hours

A survey stressing the taxonomy, distribution and habits of representative forms of the area. Special emphasis on collection, identification and preservation of some of the more representative forms. One hour lecture and/or 4 hours of laboratory and field work per week. PR: 101, 102.

215. **Bio-Photography** Two hours

A course designed to familiarize students with the fundamentals of photography and its many applications in the field of biology, including photomicrography. Open to students that have an interest in both photography and biology. PR: 101, 102.

220. **Invertebrate Zoology** Four hours

Two lectures and two two-hour laboratories each week. Facts and principles fundamental to an understanding of the invertebrate animals will be presented. This course is designed for majors in zoology or biology and for premedical students. PR: 101, 102.

221. **Vertebrate Zoology** Four hours

Two lectures and two two-hour laboratories each week. Facts and principles fundamental to an understanding of vertebrate animals will be presented. PR: 101, 102.

224. **Microbiology** Three hours

Two lectures and one two-hour laboratory each week. The techniques of isolating and identifying bacteria are considered. Attention is given to the several types of disease-producing microorganisms and methods of control. This is a general course designed to give the student and understanding of the importance of microorganisms in the life of man. PR: 101, 102.

230. **General Botany** Four hours

Two lectures and two two-hour laboratories each week. The first part of the semester is given to the study of the structures and functioning of the seed plant. The second part includes a survey of both lower and higher forms of plants with emphasis on reproductive structures. Basic to all other botany courses. PR: 101, 102.

242. **Bio-Ecology** Three hours

This course constitutes a study of the relationship of organisms to their environment. The edaphic, climatic, and biotic factors are given consideration. Human ecology and conservation are presented where pertinent. PR: 101, 102.

295. **Cell Biology** Three hours

An introductory course in cellular physiology emphasizing functions common to all living forms of matter. The physical and chemical properties of protoplasm will be studied to show their relationship to structure, morphology, and development of cells and their significance in the life processes relating Form and Function. PR: Biology 101, 102 and Chemistry 101, 102 or Chemistry 105, 106.

315. **Field Zoology** Three hours

Primarily for those who teach or intend to teach biology. This course aims to familiarize students with the animal life of the State in its natural surroundings and includes the collection, identification, and study of habits of the various forms found in this region. PR: 101, 102. Offered only in summer.

330. **Field Botany** Three hours

Designed primarily for those students that plan to teach. The various groups of plants are considered in the field and laboratory with emphasis on the seed plants. Some attention is given to ecology. PR: 101, 102 or consent of instructor. Offered only in summer.

340. **The Plant Kingdom** Three hours

Two lectures and one two-hour laboratory each week. This course deals with the structural characteristics of the great plant groups through the Bryophytes. Their organization, development, and reproductive structures are considered in detail. Teaching materials are compiled and techniques are developed. There are field trips on occasion. PR: 230.

341. **The Plant Kingdom** Three hours

Two lecturers and one two-hour laboratory each week. Continuation of the Plant Kingdom, 340, but may be taken as an independent unit. This course covers the vascular plants including the ferns, gymnosperms, and angiosperms. PR: 230.

342. **Mycology** Four hours

The course constitutes a study of the development, morphology and taxonomy of the fungi and familiarizes the student with the relation of fungi to human affairs. Two lectures and two two-hour laboratories weekly. PR: 230.

350. **Comparative Anatomy of Vertebrates** Four hours

Two lectures and two two-hour laboratories each week. The anatomical similarities and differences among representative vertebrate animals will be studied comprehensively in both lecture and laboratory. Attention will be given to evolutionary structural advancements. PR: 101, 102.

360. Biochemistry Three hours

A study of the general principles of biochemistry including the metabolism of carbohydrates, proteins, and fats. Biosynthetic pathways, enzymatic mechanisms, biological oxidation, and other aspects of the subject are considered. PR: Chemistry 101 and 102 or higher, Biology 230 and 221. (Chemistry majors & minors by consent).

370. Plant Physiology Four hours

Two lectures and two two-hour laboratories each week. All of the physiological processes of plants are considered; ascent of sap, transpiration, food and bio-chemical synthesis, respiration, translocation, and growth and development. PR: 230.

380. Introduction to Genetics Three hours

Principles of inheritance; chemical nature, structure and function of genetic materials. Implications to population and human genetics. Two hours lecture and one two-hour laboratory per week. PR: 101, 102.

381. Principles of Evolution Three hours

A study of the principles of organic evolution; physical, chemical and biological phenomena related to the understanding of the long term changing process of life. Two lectures and one two-hour laboratory per week. PR: 101, 102.

411. Histology Four hours

Two lectures and two two-hour laboratory periods each week. An analysis of the arrangement of fundamental animal tissues to differentiate between cell types and study their relationships to each other in the functioning organism. Also, this course will include histological technique to give the student an introduction to the preparation of animal tissues for study. PR: 221 or 350.

415. Hydrobiology Four hours

A study of the physical, chemical, and biological aspects of the various aquatic habitats. Emphasis is on the ecology of the various communities, with development of techniques in Field ecology which may apply. Two lectures and two two-hour laboratory periods per week. PR: 101, 102.

418. Plant Pathology Three hours

This course constitutes a study of the causal agents of plant diseases and their morphological and physiological effects upon the host. Consideration is also given to the control measures involved. Two lectures and one two-hour laboratory weekly. PR: 230 and 342 or consent of instructor.

420. Vertebrate Embryology Four hours

Two lectures and two two-hour laboratories each week. This course offers an introductory study of the developments of the vertebrates. Emphasis of study is chiefly upon the frog, chick, and pig. PR: 221 or 350.

440. Plant Anatomy Three hours

Two lectures and one two-hour laboratory each week. Attention is given to the fundamental tissue organization of the higher plants. Development and differentiation of cell type and structures are considered as they relate to the functioning of the organism as a whole. PR: 230.

450. **Comparative Physiology** Four hours

A detailed study of the significance of the chemical properties of protoplasm in life processes including nutrition, respiration, circulation, excretion, nervous, reproduction and feed back mechanisms of control of synthesis, release, hyper and hypo conditions, chemical nature and effects of the secretions and synergistics interactions. Two lectures and two two-hour laboratory periods per week. PR: Biology 295 and 220 or 221 or 350.

490. **Seminar in Biology** One hour

All biology majors, either in their junior or senior year, will meet for one hour each week, for one semester. Each student will participate at least one time during the term by reviewing a pertinent topic of biological significance for his fellow participants. PR: 20 hours of biological courses and consent.

495: **Problems in Biological Sciences** Two hours

This course is designed for students who have interest in a specific problem in biology. It should not be used as a means of meeting requirements but rather as a research course that goes beyond the usual courses in developing the student. PR: 20 hours of biological courses and consent.

CHEMISTRY

(Division of Science)

Three programs are available for students who wish to specialize in chemistry.

1) The B.S. degree with a major in chemistry provides a well-balanced program of courses in the major fields of chemistry, as well as mathematics and physics. A student completing this program will be able to compete with graduates of most colleges and universities for positions in industry, federal agencies and graduate schools in chemistry.

2) The A.B. degree in chemistry includes a less rigorous grounding in mathematics but provides background suitable for employment in chemical or health-related agencies or industrial laboratories. It is an ideal pre-medical curriculum or it can provide a stepping stone to graduate school in bio-chemistry, pharmacology, or related fields.

3) The A.B. in Education with a comprehensive teaching field in chemistry equips the graduate to teach chemistry and/or general science in any secondary school or to pursue graduate studies in Science Education.

Bachelor of Science Degree

MAJOR 75-78 Sem. Hrs.

Required courses 43 Sem. Hrs.

Chemistry	105, 106	Chemical Principles	10
	205	Analytical Chemistry	4
	206	Instrumental Analysis	5
	305, 306	Organic Chemistry	10
	405, 406	Physical Chemistry	8
	440	Intermediate Organic Chemistry	3
	450	Intermediate Organic Chemistry	3

Related courses 32-35 Sem. Hrs.

Physics 101, 102 Introduction to Physics	8
Language	
French or German	12
Mathematics through Calculus III	12-15

Bachelor of Arts Degree

MAJOR 53 Sem. Hrs.
Required courses 38 Sem. Hrs.
Chemistry 105, 106, 205, 206, 305-306 (10 sem. hrs.), 340, 440, 450
Related courses 15 Sem. Hrs.
Physics 101, 102
Mathematics 112, 115

MINOR 19-20 Sem. Hrs.
Required courses
Chemistry 105, 106 and either 205, 206 or 305, 306 (10 hours)

Chemistry 101, 102, 103 may be substituted for 105, 106 in all programs.

Curricula for Teaching Fields and Specializations in Chemistry

Chemistry, General Science Comprehensive grades 7-12 48 Sem. Hrs.

*Chemistry 105, 106	Chemical Principles	10
*Chemistry 205	Analytical Chemistry	4
*Chemistry 206	Instrumental Analysis	5
*Chemistry 305	Organic Chemistry	4
*Chemistry 340	Physical Approach to Modern Chemistry	3
*Physics 101, 102	Introduction to Physics	8
*Physics 202	Astronomy	3
*Geology 101	General Geology	3
Biology 101, 102	Introduction to Biology	6
Science 431	Meth. & Mat. in Teaching Science (offered only second semester each year)	2

Chemistry 101, 102, 103 may be substituted for 105, 106.

Chemistry Single Teaching Field grades 7-12 41 Sem. Hrs.
Same as required in comprehensive program but omit Geology 101, Physics 202.

* Courses marked with an asterisk must be completed prior to admission to the Professional Block.

Courses of Instruction

Chemistry

101. **General Chemistry** Four hours

Three lectures and one three-hour laboratory. A survey of traditional and modern Chemistry with emphasis on concepts and the role of Chemistry in modern life. For students who do not plan to take any courses beyond Chemistry 102. This course has no pre-requisites.

102. **General Chemistry** Four hours

Three lectures and one three-hour laboratory. Continuation of Chemistry 101. PR: Chemistry 101.

103. **Modern Chemistry** Two hours

One lecture and one three-hour laboratory. This course is designed to provide background for those students who take Chemistry 101 and 102 and then decide to take additional chemistry. PR: 102. Can be taken concurrently with 205, or 305.

105. **Chemical Principles** Five hours

Three lectures and two three-hour laboratories. A study of inorganic and elementary physical chemistry based on modern chemical concepts, including Stoichiometry, Atomic and Molecular Structure, Periodic Properties, Phase Relations Solution Chemistry, Chemical Equilibrium and Kinetics, Electrochemistry, and Nuclear Chemistry. Qualitative Analysis and an introduction to computer programming is included in the laboratory. PR: One unit of high school chemistry.

106. **Chemical Principles** Five hours

Three lectures and two three-hour laboratories. Continuation of Chemistry 105. PR: Chemistry 105.

205. **Analytical Chemistry** Four hours

Two lectures and two three-hour laboratories. Classical methods of chemical analysis with emphasis on quantitative techniques. Also includes theory of acid-base, precipitation, and oxidation methods, Molecular Structure, and an introduction to electrochemistry. PR: Chemistry 106, or 103 concurrently.

206. **Instrumental Analysis** Five hours

Three lectures and two three-hour laboratories. Theory of and practical experience in the use of modern chemical instrumentation. Includes Spectroscopic, Chromatographic, Electrochemical, and Radio-chemical methods. PR: Chemistry 205.

305. **Organic Chemistry** Four-five hours

Three lectures and one or two three-hour laboratories. A systematic study of organic chemistry with emphasis on kinetic behavior, structural relationships, and reaction mechanisms. Includes the study of all major classes of organic compounds and functional groups. Chemistry majors and minors must take the 5 hour course; others may elect either the 4 or 5 hour course. PR: Chemistry 106, or 103 concurrently.

306. **Organic Chemistry** Four-five hours

Three lectures and one or two three-hour laboratories. Continuation of Chemistry 305. PR: Chemistry 305.

340. **Physical Approach to Modern Chemistry** Three hours

Three lectures. A study of elementary physical chemistry for teachers. This course is designed to provide the background necessary to teach the new high school courses in chemistry, physics, and physical science. Pre-or-Corequisite: Chemistry 305.

401. **Independent Study and Research** Two hours

Independent study and research under the direction of a faculty member. PR: Consent of Instructor.

402. **Independent Study and Research** Two hours

Independent study and research under the direction of a faculty member. PR: Consent of Instructor.

403. **Independent Study and Research** Two hours

Independent study and research under the direction of a faculty member. PR: Consent of Instructor.

405. **Physical Chemistry** Four hours

Three lectures and one three-hour laboratory. A rigorous study of Kinetics, Thermodynamics, Quantum Mechanics, Phase Equilibria, Electrochemistry, and Nuclear Chemistry. PR: Chemistry 206, Chemistry 305, Mathematics 315, and Physics 102.

406. **Physical Chemistry** Four hours

Three lectures and one three-hour laboratory. Continuation of Chemistry 405. PR: Chemistry 405.

440. **Intermediate Organic Chemistry** Three hours

Three lectures. An advanced study of organic reaction mechanisms. PR: Chemistry 306.

450. **Intermediate Inorganic Chemistry** Three hours

Three lectures. An advanced study of inorganic reactions, coordination compounds, and theories based on quantum mechanical principles. PR: Chemistry 405.

460. **Seminar** One hour

Each chemistry major should register for seminar one semester, preferably during his senior year. PR: Consent of Instructor.

COMMERCE

(Business Administration, Business Education, Economics)

The Division of Commerce offers the student several choices in his selection of a major field of study. Under the B.S. Degree the student may obtain a degree in Business Administration with a concentration in General Business, Economics or Accounting. Also under the B.S. Degree is the possibility of majoring in Office Administration.

In the A.B. in Education the student may earn a degree in Business Education-Comprehensive or Business Education-Secretarial.

In the area of two-year programs the student may select: Accounting, Secretarial or Clerical.

Business Administration

Group A General

MAJOR 39 Sem. Hrs.

Business	*201, 202	Principles of Accounting	3
	205	Salesmanship	3
	300	Retailing	3
	304	Marketing	3
	*306, 307	Business Law	6
	308	Personnel Management	3
	309	Industrial Organization and Management	3
	310	Statistics	3
	320	Advertising	3
	401	Business Finance	3
	408	Introduction to Data Processing	3
	409	Quantitative Management	3
	410	Investments	3
	429	Bus. Anal. and Machine Accounting	3
	430	Electronic Data Processing	3
Econ.	*201, 202	Economic Principles and Problems	6
	301	Intermediate Econ. Analysis: Microeconomics	3
	303	Money, Credit and Banking	3
	307	Personal Finance	3
Math.	113	Finite Math	3
	114	Finite Math	3

MINOR (Not open to Majors in Group A or B. Open to Majors in Group C.) 18 Sem. Hrs.

Business	201, 202	Principles of Accounting	6
	306, 307	Business Law	6
	304	Marketing	3
	309	Industrial Organization and Management	3
	310	Statistics	3
	401	Business Finance	3

* Required.

Group B Accounting

MAJOR 39 Sem. Hrs.

Business	*201, 202	Principles of Accounting	6
	*301, 302	Intermediate Accounting	6
	*303	Advanced Accounting	3
	*306, 307	Business Law	6
	310	Statistics	3
	401	Business Finance	3
	404	Cost Accounting	3
	405	Auditing	3
	406, 407	Federal Income Tax Accounting	6
	408	Introduction to Data Processing	3
	409	Quantitative Management	3

	429	Bus. Anal. and Machine Accounting	3
	430	Electronic Data Processing	3
Econ.	*201, 202	Economic Principles and Problems	6
Math.	113	Finite Math	3
	114	Finite Math	3

MINOR (Not open to Majors in Groups A or B.
Open to Majors Group C.) 18 Sem. Hrs.

Business	201, 202	Principles of Accounting	6
	301, 302	Intermediate Accounting	6
	303	Advanced Accounting	3
	404	Cost Accounting	3
	405	Auditing	3
	406, 407	Federal Income Tax Acctg.	6
	429	Bus. Anal. and Machine Accounting	3

* Required.

Group C Economics
MAJOR 39 Sem. Hrs.

Econ.	*201, 202	Economic Principles and Problems	6
	*301	Inter. Econ. Analysis: Microeconomics	3
	*302	Inter. Econ. Analysis: Macroeconomics	3
	303	Money, Credit and Banking	3
	305	Economics of Labor	3
	307	Personal Finance	3
	405	Economic Analysis	3
	406	Guided Economic Study	3
Business	201, 202	Principles of Accounting	6
	310	Statistics	3
	408	Introduction to Data Processing	3
	430	Electronic Data Processing	3
History	320	American Economic History	3
Math	113	Finite Math	3
	114	Finite Math	3

MINOR (Not open to Majors in C.
Open to Majors Group A and B) 18 Sem. Hrs.

Econ.	201, 202	Economic Principles and Problems	6
	301	Inter. Econ. Analysis: Microeconomics	3
	302	Inter. Econ. Analysis: Macroeconomics	3
	303	Money, Credit and Banking	3
	305	Economics of Labor	3
	405	Economic Analysis	3
	406	Guided Economic Study	3

* Required.

Office Administration

MAJOR 34 Sem. Hrs.

Required Courses

Bus. Educ.	102	Intermediate Typewriting	2
	211	Advanced Typewriting	2
	251	Business Correspondence	2
	301, 302	Advanced Shorthand and Transcription	8
	303	Principles and Practices of Filing	2
	311	Office Machines	2
	312	Card Punching	2
	314	Dictation and Transcription	2
	351	Secretarial Office Practice	3
	351L	Secretarial Office Practice Lab	1
	201, 202	Principles of Accounting	6
Home Ec.	103	Principles of Clothing Selection	2

MINOR 21 Sem. Hrs.

Required Courses

101, 102	Beginning and Intermediate Typewriting or	
211	Advanced Typewriting	4
201, 202	Beginning Shorthand	8
301	Advanced Shorthand	4
311	Office Machines	2
201	Principles of Accounting	3

Curricula for Teaching Fields and Specializations in Business Education

Business Education Comprehensive, grades 7-12 44 Sem. Hrs.

*Business	141	Business Mathematics	3
*Business	201-202	Principles of Accounting	6
Business	304	Marketing	3
Business	306	Business Law	3
*Economics	201-202	Economic Principles and Problems	6
Economics	303	Money, Credit and Banking	3
*Bus. Educ.	102-211	Intermediate & Advanced Typewriting	4
Bus. Educ.	311	Office Machines	2
*Bus. Educ.	301-302	Advanced Shorthand and Transcription	8
*Bus. Educ.	351	Sec. Office Practice	3
Bus. Educ.	351L	Sec. Office Practice Lab	1
Bus. Educ.	431	Meth. & Materials in Teaching Bus. Educ.	2

Business Education Secretarial, Single Teaching Field 7-12
(A second teaching field is required with this program.) 27 Sem. Hrs.

*Business	141	Business Mathematics	3
*Business	201-202	Principles of Accounting	6
*Bus. Educ.	301-302	Advanced Shorthand & Transcription	8
*Bus. Educ.	102-211	Intermediate & Advanced Typewriting	4
Bus. Educ.	311	Office Machines	2
*Bus. Educ.	351	Sec. Office Practice	3
Bus. Educ.	351L	Sec. Office Practice Lab	1

* Courses marked with an asterisk must be completed prior to admission to the Professional Block.

TWO-YEAR CURRICULA

Two-Year Accounting Curriculum 64 Sem. Hrs.

Required Courses

Business	141	Business Mathematics	3
Business	201, 202	Principles of Accounting	6
Business	301, 302	Intermediate Accounting	6
Business	303	Advanced Accounting	3
Business	306	Business Law	3
Business	406, 407	Income Tax, Indiv. & Corporate	6
Economics	201, 202	Principles and Problems	6
English	104, 108	Written English	6
Bus. Educ.	101, 102	Begin. Typewriting and Intermediate Typewriting	
	211	or Advanced Typewriting	4
Psychology	101	General Psychology	3
Speech	101 or	Fundamentals of Speech	3
	107	Speech Improvement	2
Electives			15-16

Two-Year Secretarial Curriculum 64 Sem. Hrs.

Required Courses

Business	102	Introduction to Business	3
Business	141	Business Mathematics	3
English	104, 108	Written English	6
Bus. Educ.	101, 102	Begin. & Intermed. Typewriting	4
Bus. Educ.	204	Secretarial Accounting	3
Bus. Educ.	201, 202	Begin. Shorthand	8
Bus. Educ.	211	Advanced Typewriting	2
Bus. Educ.	251	Business Correspondence	2
Bus. Educ.	301, 302	Adv. Shorthand & Transcription	8
Bus. Educ.	303	Principles & Practices of Filing	2
Bus. Educ.	311	Office Machines	2
Bus. Educ.	312	Card Punching	2
Bus. Educ.	314	Dictation & Transcription	2
Bus. Educ.	351	Sec. Office Practice	3
Bus. Educ.	351L	Sec. Office Practice Lab.	1
Psychology	101	General Psychology	3

Home Ec.	103	Principles of Clothing Selection	2
Speech	101 or	Fundamentals of Speech	3
	107	Speech Improvement	2
Electives			5-6

Two-Year Clerical Curriculum 64 Sem. Hrs.

Required Courses

Business	102	Introduction to Business	3
Business	141	Business Mathematics	3
Business	201, 202	Principles of Accounting	6
English	104, 108	Written English	6
Bus. Educ.	101, 102	Begin. & Intermed. Typewriting	4
Bus. Educ.	211	Advanced Typewriting	2
Bus. Educ.	251	Business Correspondence	2
Bus. Educ.	303	Principles & Practices of Filing	2
Bus. Educ.	311	Office Machines	2
Bus. Educ.	312	Card Punching	2
Bus. Educ.	351	Sec. Office Practice	3
Bus. Educ.	351L	Sec. Office Practice Lab.	1
Psychology	101	General Psychology	3
Home Ec.	103	Principles of Clothing Selection	2
Speech	101 or	Fundamentals of Speech	3
	107	Speech Improvement	2
Electives			20-22

Courses of Instruction

Commerce

(Business Administration, Business Education, Economics)

Business Administration

102. **Introduction to Business** Three hours

A survey of the various fields of business designed to acquaint the student with the basic principles, practices, and employment opportunities of each field. The student is provided, early in his college training, with the information of, and preparation for, the advanced courses in business to aid in choosing his major studies. For freshmen and sophomores only. Limited to the two-year secretarial and clerical curricula.

141. **Business Mathematics** Three hours

This course is designed to provide knowledge and skill in the computation of the practical problems of a business. The course content should form a sound basis for further study in the following areas: accounting, business finance, marketing, and related business subjects. Special emphasis will be directed to review of the basic arithmetic skills. Does not satisfy mathematics in General Requirements. Not open to students with credit for Math 110, unless fulfilling requirements for A.B. in Business Education.

201. **Principles of Accounting** Three hours

Fundamental accounting theory and procedures: Organization of accounts, the accounting cycle, working papers and the preparation of financial and operating statements for individual proprietorships.

202. Principles of Accounting Three hours

The second semester of this course is a further study of the accounting process as applied to various business organizations. The two semesters of this course are designed to give students an adequate understanding in the recording, clarifying and summarizing of business transactions in order to proceed with the interpretation and analysis of accounting data. This course is a basic course for (1) accounting majors, (2) majors in other areas of business administration, and (3) those whose major interest is in economics, political science, law or other professional areas. PR: 201.

205. Salesmanship Three hours

A study of techniques appropriate to personal selling, both retail and contact. Students are given opportunities to construct and give sales presentations.

300. Retailing Three hours

Presents an overview of retailing, including such areas as organizational structure, merchandising practices and procedures, promotional activities, store planning and layout, and control methods, thus providing technical and theoretical knowledge necessary for attaining middle management employment in this field.

301. Intermediate Accounting Three hours

Primarily the study of general financial accounting theory as it relates to balance sheet items. Included is a brief review of the accounting cycle and income recognition theory. Current tax regulations are considered where applicable. PR: Bus. 202.

302. Intermediate Accounting Three hours

A continuation of 301 to include the study of corporate ownership equity and the analysis and interpretation of accounting data. PR: Bus. 301.

303. Advanced Accounting Three hours

Includes accounting for special situations-partnerships, installment and consignment sales, home office-branch relationships, consolidations, and fund accounting. Attention is focused on the current AICPA position relative to these special accounting situations. PR: Bus. 302.

304. Marketing Three hours

A study of those business activities that direct the flow of goods and services from producers to consumers. PR: Econ. 201, 202, or consent of instructor.

306. Business Law Three hours

A study of the nature and function of our legal system, courts and procedure including the law of contracts, agency and partnership.

307. Business Law Three hours

Continuation of 306. Substantive law of corporations, sales, secured transactions, commercial papers and the legal basis of property as applied to business situations. Business 307 will not satisfy three hours requirement in the teaching field in Business Education (Comprehensive). PR: Bus. 306.

308. **Personnel Management** Three hours

A study of the field of personnel management and industrial relations including its background, development, and modern practices.

309. **Industrial Organization & Management** Three hours

The emphasis in this course is on the modern approach to the field of management. The theoretical and practical approaches are presented along with analytical techniques that are applicable in the various management and production areas.

310. **Statistics** Three hours

The course includes computation of statistical measurements, methods of collecting and analyzing data, and the interpreting of results.

314. **Office Management** Two hours

The study of office management principles, analysis of office procedures, filing, transcribing, correspondence, reports, business machines and forms. The application of personnel management techniques to office management, office organization and office layouts.

320. **Advertising** Three hours

A survey course of the social, psychological, and some technical aspects of advertising. For Business and Journalism students.

401. **Business Finance** Three hours

This course is intended to give the student a background in the field of financial management with emphasis on the areas of cost of capital, cost of external capital, cost of retained earnings, and similar concepts. It will also include material investment decisions and financial decisions. PR: Bus. 201, 202.

404. **Cost Accounting** Three hours

The relationship of cost accounting to the performance of management functions. The role of cost and profit data in management pursuit of company objectives is studied with four basic points of view in mind: (1) cost principle, (2) cost determination, (3) cost control and (4) cost analysis. PR: Bus. 201, 202.

405. **Auditing** Three hours

Duties and responsibilities of auditors, methods of verification of balance sheet and income and expense accounts with the applicable principles of internal control. Preparation of working papers, schedules, audit reports and certificates. PR: Bus. 201, 202, 301, 302.

406. **Federal Income Tax Accounting: Individual** Three hours

Preparation of income tax returns from the accounts of an individual; exclusions and inclusions for gross income, capital gains and losses, business expenses and other deductions.

407. **Federal Income Tax Accounting:**
Partnership and Corporation Three hours

Continuation of 406, including preparation of income tax returns from accounts of partnerships, estates and trusts, and corporations. PR: Bus. 406. While previous accounting knowledge or experience will be helpful, no prior accounting training, knowledge, or experience is required.

408. **Introduction to Data Processing** Three hours

This is a familiarization course to provide the student with an understanding of the arithmetic computation of computer systems, input-output devices, storage, and techniques of computer programming. Students with credit in Business 429 or 430 should not register for this course.

409. **Quantitative Management** Three hours

A study is made of the quantitative techniques which have been incorporated into the business environment in recent years.

410. **Investments** Three hours

A study of the principles of investment procedures and practices to follow in investing money.

429. **Business Analysis & Machine Accounting** Three hours

This course is primarily intended to teach the student Cobol, particularly as it applies to accounting and business analysis. PR: Bus. 408.

430. **Electronic Data Processing** Three hours

The course will provide instruction and supervised practice in computer programming with the FORTRAN IV compiler language, developing programming logic, and the actual writing, compiling, and execution of several programs. PR: Bus. 408.

Business Education

101. **Beginning Typewriting** Two hours

A beginning course in the operational fundamentals of the typewriter. This course includes basic machine operations, development of speed and control, vertical and horizontal centering, simple tabulation, memorandums, personal business letters, announcements, simple manuscripts, rough drafts and proofreader's marks. No credit by examination.

102. **Intermediate Typewriting** Two hours

PR: Bus Ed. 101 or Department Placement Test. This course includes the development of speed, control, and sustained typing, business letters, envelopes, tabulated reports, manuscripts, changing of typewriter ribbons, and simple business forms. No credit by examination.

201. **Beginning Shorthand** Four hours

Beginning course in shorthand. Introduction of theory and brief forms of Gregg Diamond Jubilee Shorthand. Emphasis is on reading and writing of shorthand at 60 words per minute. Spelling, punctuation, and sentence structure are stressed. No credit by examination. Students with one or more years of high school shorthand are not permitted to take this course for credit.

202. **Beginning Shorthand** Four hours

PR: 201 or Department Placement Test. Continuation of Bus. Ed. 201. Emphasis is on the writing of shorthand from dictation at a minimum of 80 words per minute. Spelling, punctuation, and sentence structure are stressed.

204. **Secretarial Accounting** Three hours

Designed to meet the needs of the terminal secretarial student. Trains in the fundamental accounting procedures that will be encountered by the secretary. It develops the understanding and interpretation of accounting principles. Cannot substitute for Business 201 or Business 202.

211. **Advanced Typewriting** Two hours

PR: 102. An advanced course in electric typewriting adapted to office procedures. This course includes the typing of telegrams, cards statistical reports, tabulation, business letters with tabulated data, invoices, requisitions, typing of special reports, legal documents, changing the typewriter ribbon, artyping, office style, and sustained typing. No credit by examination.

251. **Business Correspondence** Two hours

PR: Bus. Ed. 102, English 104, 108. An analysis of the physical mechanics of the business letter. This course includes the writing of effective business letters in sales, collection letters, letters of application, telegrams, cablegrams, business reports, and post office services. No credit by examination.

301. **Advanced Shorthand and Transcription** Four hours

PR: Bus. Ed. 202 or 2 years of high school shorthand and departmental placement test. Emphasis is on the writing of shorthand at a minimum of 100 words per minute and producing mailable transcripts. Spelling, punctuation, and sentence structure are stressed. A complete review of brief forms and derivatives is included. Sustained dictation and transcription of a departmental business vocabulary is emphasized. No credit by examination.

302. **Advanced Shorthand and Transcription** Four hours

PR: Bus. Ed. 301. A continuation of Bus. Ed. 301. Emphasis is on dictation at a minimum of 120 words per minute and producing mailable transcripts. Sustained dictation and transcription of a vocational vocabulary is emphasized. No credit by examination.

303. **Principles and Practices of Filing** Two hours

Designed to provide a foundation in the latest methods and systems of retrieving information and the management of a company-wide records system. Actual practice is provided in alphabetic, subject, numeric, and geographic filing systems.

311. **Office Machines** Two hours

An orientation and practice course for students in the Business or Bus. Ed. area. Approximately two-thirds of the course time is given to practice with adding-listing, rotary, electronic calculators, bookkeeping machines, spirit and ink process duplicating machines, and transcribing equipment. No credit by examination.

312. **Card Punching** Two hours

Primarily a course for skill training in the operation of electronic card-punching equipment. The course will also develop an understanding of unit record equipment, including sorting, collating, and accounting machines. The intensive training will provide proficiency in card punch machine operation. No credit by examination.

314. **Dictation and Transcription** Two hours

A course which combines the skills of shorthand, typewriting, and English required in the process of producing typewritten transcripts. Practice is given on materials designed to fuse these primary skills in order to develop vocational stenographic competency. Transcription from dictabelts is also included.

351. **Secretarial Office Practice** Three hours

This course includes all phases of the office routine and procedures. Class lecture is supplemented by a field trip, films, and guest speakers from local and state industries.

351L **Secretarial Office Practice Lab.** One hour

A practical course with actual experience in an office. A total of 60 hours in supervised office work is required for credit in the course. Previous work experience cannot fulfill this requirement. Students enrolled in this course should limit their class load for this semester to 16 hours. Two-year students should plan to take this course their last semester in college; the A. B. and B. S. majors should plan to take this course their Junior year. PR: Bus. Ed. 211, 301, 351, 2.0 average in major, minor, and overall i.e. for all work attempted.

431. **Materials and Methods in Teaching Business Education** Two hours

A presentation is made of the latest methods, procedures and techniques of teaching the skilled and nonskilled Business Education courses. Audio visual resources and equipment available for the teaching of these subjects. To be taken as part of the Professional Block.

Economics

200. **Economics** Three hours

The general education course in the field of economics. It is intended to introduce the student to the broad field of economics, including materials from both macro-and micro-economics. Primarily, the course instructs the student in how our economic system operates. Some attention is given to other economic systems. Not open to students with credit for Economics 201. Replaces Economics 210.

201. **Economic Principles and Problems** Three hours
(For those meeting the requirement of six hours in Economics)

The course approaches the subject from the point of view of Macroeconomics covering the nature and method of economics and describing how the capitalistic system functions. Further study is made of the business cycle, fiscal policy, monetary policy, gross national product and similar concepts. Some time is devoted to the study of competing economic systems. Not open to students with credit for Econ. 200.

202. **Economic Principles and Problems** Three hours
(For those meeting the requirement of six hours in Economics)

This course is devoted to Microeconomics. It follows the analysis of the firm and the decisions made by the managers of the firm. It includes the analysis of demand and supply and price and output determination. It is also concerned with the important problems in the field of economics: Monopoly, agriculture, international trade, labor, economic development and similar problems. PR: 201.

301. **Intermediate Economic Analysis: Microeconomics** Three hours

Consumer demand, the supply function, and market pricing with various degrees of competition oriented to the viewpoint of the individual firm and the industry of which the firm is a part are examined from a theoretical point of view.

302. Intermediate Economic Analysis: Macroeconomics Three hours

National income, as a measure of economic activity, is descriptively and theoretically analyzed. Examination of theories of consumption and investment spending including monetary demand and supply are integrated with current economic problems to explain the level of employment and prices.

303. Money, Credit, and Banking Three hours

An intensive study of money and credit principles with an analysis of their effects upon prices. History of banking. Banking principles and practices. PR: Economics 201, 202.

305. Economics of Labor Three hours

A review of labor history with emphasis on the aims and methods of labor organizations, the theories of wages, and the current trends in labor-management relations.

307. Personal Finance Three hours

A study of the problems a consumer must face in his or her day-to-day buying and living. It includes a brief survey of budgets, life insurance, investments, managing personal finances, buying services, and other problems of the consumer.

405. Economic Analysis Three hours

As well as giving the upper class student some advanced economic analysis, the course is designed to demonstrate the applicability of economic principles and theory to a wide range of important social issues.

The student will be encouraged to use the tools of economic analysis to generate possible solutions to problems found not only in commerce but also in other areas of modern society.

406. Guided Economic Study One-Three hours

Intensive reading, research, and study in current literature and documents in regard to a selected economic problem or group of problems. The field of study will be one in which the student has a special interest. All work will be done individually and the class will be conducted by conferences with each student. PR: 17 hours of Economics, Business, and Social Science courses.

ENGLISH

(Division of Language and Literature)

The English program is designed to provide instruction in the English language and in literature written in English as part of the college's educational program, thereby developing increased proficiency in communication skills and encouraging judgment and appreciation of the values of literature for the individual and for society. It is also intended to provide leadership and constructive influence in promoting literacy and the appreciation of literature in the elementary and secondary schools of the state, particularly through the training of English teachers and by seeking to obtain high standards in teacher education. A third aim of the English program is to cooperate with the English departments of all colleges and universities in the state in the effort to promote in the academic community, the state, and the nation an understanding of the importance of language and literature as an element in liberal education. A final aim of the English program—which is a result of its general concern with academic excellence—is to make available honors courses for talented and highly motivated students.

MAJOR IN ENGLISH		36 Sem. Hrs.
Required Courses, Studies and Practice in the English Language 104, 108, 321	9	
Required Courses, Literature 250, 260	6	
Electives 300-400 level, Literature Courses	15	
Electives, 300-400 level, Composition and Language Courses	6	
Foreign Language		12 Sem. Hrs.

MINOR IN ENGLISH		30 Sem. Hrs.
Required Courses, Studies and Practice in the English Language 104, 108, 321	9	
Required Courses, Literature 250, 260	6	
Electives, 300-400 level, Literature Courses	12	
Electives, 300-400 level, Composition and Language Courses	3	

CURRICULA FOR TEACHING FIELDS AND SPECIALIZATIONS IN ENGLISH AND LANGUAGE ARTS

English, Single Teaching Field, Grades 7-12

Required Courses			36 Sem. Hrs.
*104	Written English	3	
*108	Advanced Written English	3	
*250	Survey of English Literature	3	
*260	Survey of American Literature	3	
*321	Study of English Language	3	
Electives			
	300-400-level language and composition courses	6	
	300-400-level literature courses	15	

Language Arts Comprehensive, Grades 7-12 — 59 Sem. Hrs.

English	*104	Written English	3
English	*108	Advanced Written English	3
English	*250	Survey of English Literature	3
English	*260	Survey of American Literature	3
English	*321	Study of the English Language	3
English	431	Methods and Materials in Teaching English	2
Speech	*105	Voice and Diction	3
**Drama	*151	Play Production	2
**Drama	*152	Theatre Workshop	1
Speech	*210	Speech for the Teacher	3
Speech	*243	Argumentation and Debate	3
Drama	*221	Oral Interpretation	2
Speech	245	Oratory	1
Speech	401	Extemporaneous Speaking	1
Drama	*336	Play Directing	2
Speech	430	Speech Correction	3
Journalism	*240	Reporting	3
Journalism	312	Publication Problems	3

Electives

300-400	level language and composition courses	3
300-400	level literature courses	12

Language Arts Subject Specialization, Grades 1-9 or 7-9

Required Courses — 24 Sem. Hrs.

*104	Written English	3
*108	Advanced Written English	3
*250	Survey of English Literature	3
*260	Survey of American Literature	3
*321	Study of the English Language	3

Electives

300-400-level language and composition courses	3
300-400-level literature courses	6

* Courses marked with an asterisk must be completed prior to admission to the Professional Block.

** Speech 152 (Theatre Workshop) must be taken concurrently with Speech 151 (Play Production). Previously acquired credit in Speech 152 will not fulfill this requirement.

Courses of Instruction

Division of Language and Literature

104. **Written English** Three hours

Training in writing and speaking good English, including a short review of grammar, sentence structure, and punctuation; attention to the organization and development of thought, both in student compositions and in expository reading material; guidance in the use of reference books. Laboratory work will be required of those who do not meet certain minimum standards in English, and performance in the laboratory will constitute part of the grade in the course.

108. **Advanced Written English** Three hours

A continuation of English 104 which stresses rhetorical principles. One of the writing projects is a research paper. Laboratory work will be required of those who do not meet certain minimum standards in English, and performance in the laboratory will constitute part of the grade in the course. PR: 104.

English 108 is a prerequisite for all English courses numbered 200 or above.

207. **Children's Literature** Three hours

A survey of literature desirable for children; development of principles of selection and standards of evaluation; wide acquaintance with current books.

250. **Survey of English Literature** Three hours

A study of the mind and temper of the English people as seen in their literature from Chaucer through the early twentieth century.

260. **Survey of American Literature** Three hours

An historical study of the American mind as expressed in literature from colonial times to the present.

302. **Narrative and Descriptive Writing** Three hours

Practice in writing the simpler forms of fiction and personal narrative with descriptive detail.

311. **Literature of the Romantic Period** Three hours

A concentrated study of the works of such writers as Burns, Wordsworth, Coleridge, Byron, Shelley, and Keats.

312. **Literature of the Victorian Period** Three hours

A concentrated study of the works of such writers as Tennyson, Browning, Rossetti, Arnold, Swinburne, Mill, Ruskin, and Carlyle.

315. **Shakespeare** Three hours

A study of representative histories, comedies, and tragedies.

318. **Modern Drama** Three hours

The study of modern dramas—Continental, British, and American—from Isben to the present time.

319. **General Semantics** Three hours

Study in that branch of linguistics concerned with the nature, structure, and meaning of words and with the role of language in human behavior.

321. **Study of the English Language** Three hours

Word history and analysis; diction; descriptive grammar and constructions; fundamentals of composition. Required of all prospective teachers of English; to be taken before professional block. Sophomores must have permission of instructor.

322. **The Short Story** Three hours

A critical study of this art form based upon the work of British, Continental, and American authors.

341. **Survey of World Literature** Three hours

A study in translation of some of the great writers of the world, exclusive of English and American, from Homer through Dante.

342. **Survey of World Literature** Three hours

A continuation of 341 covering the period from the Renaissance to modern times.

343. **The Current Scene in Literature** Three hours

A course showing present-day attitudes as reflected in the work of American and foreign writers.

346. **The British Novel** Three hours

An historical and critical study of significant British novels of the eighteenth, nineteenth, and twentieth centuries.

347. **The American Novel** Three hours

A course designed to trace the development of the American novel from the late eighteenth century to the present. Important American novels will be analyzed in a temporal sequence.

348. **The Bible as Literature** Three hours

A study of the literary types and content of the Bible.

353. **Eighteenth Century Literature** Three hours

A study of important British writers of the period, particularly Swift, Pope, Addision, and Johnson.

360. **Major American Poets** Three hours

A study of leading American poets, particularly Poe, Emerson, Whitman, Dickinson, Frost, Pound, and Eliot.

371. **Folk Literature** Three hours

A survey course whose chief emphasis is on the study of ballads, but kindred material is also studied and collected—superstitions, hymns, riddles, stories, and songs.

413. **Expository Writing** Three hours

Study and practice of the various kinds of expository writing with special emphasis upon the skilled production of research papers.

420. **Seventeenth Century Literature** Three hours

A study of important British writers of the period, including Donne and Herrick, and emphasizing Milton.

421. **Chaucer** Three hours

A study of selected works by Chaucer which help to reveal the range and development of his thought and art. The emphasis will be on **The Canterbury Tales** and **Troilus and Criseyde.**

422. **British Drama** Three hours

The history of English dramatic literature from medieval to modern times.

423. **Literary Criticism** Three hours

A study of past and present critical methods and of the theoretical assumptions upon which they are based.

431. **Methods and Materials in Teaching English** Two hours

Study and practice in the techniques of teaching the fundamentals of grammar and mechanics, composition, and the varied types of literature.

450. **Honors Literature** One-four hours

This course is intended for the superior student of literature, regardless of major. It consists of guided readings, weekly seminars, and an examination covering each semester's work. In order to graduate "with honors," a student must earn three hours of credit. PR: Permission of Honors Committee. Credit: One hour per semester.

460. **Independent Studies** One-four hours

Intensive study in the work of one or more significant authors. Subject area to be suggested by the student and approved by the instructor. If he so desires, the student may conduct an independent investigation in an area of interest to him and embody the results of his efforts in one or more research papers. PR: Consent of instructor.

FRENCH

(Division of Language and Literature)

The French department has an individualized program. Students taking twelve semester hours enroll in differentiated courses aimed at reading skill within a definite practical range of vocabulary. Students taking twenty-four or more semester hours enroll in a program aimed at an advanced skill in reading, speaking, listening, and writing, as well as at an understanding of the French mind. There is instruction in French civilization and culture in all programs. Students preparing to teach French, and those preparing for fields of international relations, have available a series of courses in conversation and composition to establish these advanced skills.

B.A. Degree

MAJOR 33 Sem. Hrs.

French	101	Elementary French	3
	102	Elementary French	3
	*205	French Civilization and Culture	3
	*206	Survey of 18th and 19th Century French Literature	3
	301	Literature of the 17th Century	3
	311	French Composition and Conversation I	3
	312	French Composition and Conversation II	3
	313	French Composition and Conversation III	3
	321	Contemporary Literature	3
	411	Advanced French Composition and Conversation	3
	425	Advanced Survey of 18th and 19th Century Literature	3

* In the case of changes of major, 201 and 202 are accepted for 205 and 206 upon satisfactory completion of a qualifying examination.

310 Special Topics in French may be substituted for any course beyond the 200 level.

MINOR 24 Sem. Hrs.

Required Courses 101, 102, 205 and 206 (or, less preferably, 201 and 202), and one course from the 311-312-313 group.	15
Electives Selected from any of the Composition and Conversation or Literature courses.	9

Curricula for Teaching Fields and Specializations in French

Single Teaching Field, Grades 7-12

Required Courses 33 Sem. Hrs.

French	101	Elementary French	3
	102	Elementary French	3
	*205	French Civilization and Culture	3

*206	Survey of 18th and 19th Century French Literature	3
301	Literature of the 17th Century	3
311	French Composition and Conversation I	3
312	French Composition and Conversation II	3
313	French Composition and Conversation III	3
321	Contemporary Literature	3
411	Advanced French Composition and Conversation	3
425	Advanced Survey of 18th and 19th Century Literature	3

* In the case of changes of major, 201 and 202 are accepted for 205 and 206 if 310, Special Topics in French, is also taken.

Subject Specialization, Grades 1-9 or 7-9
Required Courses 24 Sem. Hrs.

French	101	Elementary French	3
	102	Elementary French	3
	*205	French Civilization and Culture	3
	*206	Survey of 18th and 19th Century French Literature	3
	311	French Composition and Conversation I	3
	312	French Composition and Conversation II	3
	313	French Composition and Conversation III	3
	411	Advanced French Composition and Conversation	3

* In the case of changes of major, 201 and 202 are accepted for 205 and 206 if 310, Special Topics in French, is also taken.

Courses of Instruction

French

101. **Elementary French** Three hours

Pronunciation, oral comprehension and speaking, reading and written drill and composition, elements of grammar. Laboratory.

102. **Elementary French** Three hours

Continuation of 101 completing the basic grammatical principles. One year of high school French is also considered as a satisfactory prerequisite for this course.

201. **Second Year French** Three hours

Not open to those who have a major, minor, or area specialization in French, all of whom must take 205 instead. Emphasis on reading comprehension and vocabulary building. Language laboratory used. PR: 101 and 102, or two years of high school French.

202. Second Year French Three hours

Continuation of 201. Not open to those who have a major, minor, or area specialization in French, all of whom must take 206 instead. Emphasis on reading comprehension and vocabulary building. Language laboratory used. PR: 201.

205. French Civilization and Culture Three hours

A second year course with increased emphasis on conversation. Required, with its successor 206, in place of 201 and 202 of all those who have a major, minor, or area specialization in French. May, with consent of instructor be substituted for 202. Language laboratory used. PR: One year college French or its equivalent, and a major, minor, or area specialization in French, or consent of instructor.

206. Survey of 18th and 19th Century French Literature Three hours

A second year course with increased emphasis on conversation. Required, with its predecessor 205, in place of 201 and 202 of all those who have a major, minor, or area specialization in French. May, with consent of instructor be substituted for 202. Emphasis is on the less difficult and shorter works of literature. PR: 205, or consent of instructor.

301. Literature of the Seventeenth Century Three hours

Reading of the plays of Corneille, Racine, Moliere with outside reports from other classical writers. Comprehension, speaking, reading and writing all stressed. PR: Two years of college French or equivalent. Lab used.

310. Special Topics in French Three hours

Supervised independent study reflecting the student's needs and interests. PR: 201 or 205 and consent of instructor.

311. French Composition and Conversation I Three hours

Part of the group consisting of 311, 312, and 313, which may be taken in any order. Writing, conversing, and aural comprehension, with extensive use of audio-visual aids. Emphasis on practical proficiency, grammar, vocabulary building, and phonetics. Language laboratory used. PR: 12 hours of French.

312. French Composition and Conversation II Three hours

Part of the group consisting of 311, 312, and 313, as described under 311.

313. French Composition and Conversation III Three hours

Part of the group consisting of 311, 312, and 313, as described under 311.

321. Contemporary Literature Three hours

Outstanding writers of the twentieth century, such as Gide, Proust, Mauriac, Giono, Camus, Valery. Emphasis is on reading comprehension. PR: 12 hours of French.

411. Advanced French Composition and Conversation Three hours

Writing, conversing, and aural comprehension on an advanced level with extensive use of audio-visual aids. Emphasis on a high level of practical proficiency, grammar, vocabulary, and pronunciation. PR: 18 hours of French, including one previous conversation course, and to be taken as late as possible in the sequence of courses.

425. Advanced Survey of 18th and 19th Century Literature Three hours

A reinforcement of 206, with emphasis on the more difficult and longer works. PR: 12 hours of French.

431. Methods and Materials in Teaching French Two hours

Study and practice in teaching French language and literature, grades 7-12.

GERMAN

(Division of Language and Literature)

The German program is designed to produce definite and practical levels of skill. In six semester hours the student achieves overall acquaintance with German structures, and speaking and reading skill on a basic level. For students taking twelve semester hours there is a program specially designed to produce reading skill covering a definite range of vocabulary on the intermediate level, on which the student can build future progress. Carefully selected texts and slides are used in close coordination with a programmed dictionary. Additional hours resulting in a German minor are available for those desiring to do additional reading under supervision.

MINOR (B.A. Degree) 18 Sem. Hrs.

Required Courses

101, 102	First Year German, or equivalent	6
201, 202	Intermediate German, or equivalent	6

Electives from the following courses:

210	Masterpieces of German Literature	3
301	The German Novelle	3
302	German Drama and Lyric Poetry	3
303	Special Topics	3

Courses of Instruction

German

101. First Year German Three hours

The elements of German grammar; simple reading exercises, pronunciation; written assignments.

102. First Year German Three hours

A continuation of the above course; special topics in grammar and greater emphasis on reading. PR: 101 or one unit of high school German.

201. Intermediate German Three hours

Grammar review; composition; conversation; reading of fiction. The principal aim of the course is the reading of narrative of moderate difficulty. PR: German 102 or equivalent.

202. Intermediate German Three hours

This course continues the work of German 201. PR: German 201 or equivalent.

210. **Masterpieces of German Literature** Three hours

A course emphasizing reading and aural comprehension of a wide range of German poetry, fiction, and drama. May be substituted for German 201 or German 202, with permission of the instructor. Laboratory used. PR: 9 hours German, or permission of instructor.

301. **The German Novelle** Three hours

A study of the German Novelle as a literary form of the nineteenth and twentieth centuries, with attention also being given to the German cultural and social environment. Continued work in composition and conversation. PR: 12 hours, or permission of instructor.

302. **German Drama and Lyric Poetry** Three hours

A study of selected German plays and lyric poems, with emphasis on the work of Goethe and Schiller. Continued work in composition and conversation, and aural comprehension. PR: 12 hours, or permission of instructor.

303. **Special Topics** Three hours

A course of individual study under supervision in a topic and skill of special importance to the student, such as the reading of literary or scientific material, aural comprehension, or pronunciation. Laboratory work may be included. PR: 9 hours, or permission of instructor.

GEOGRAPHY

(Division of Social Science)

The course offerings in Geography emphasize the earth's physical environment and its influences upon the development of human culture. Particular consideration is given to the political and economic importance of Geography. Of particular concern are the ecological aspects of conservation and the use of natural resources.

Courses of Instruction
Geography

210. **World Regional Geography** Three hours

An introductory course in geography with major attention to the principles and concepts of the subject and a detailed study of the geographical regions of the world.

330. **Geography of North America** Three hours

A regional economic geography primarily of the United States and Canada from the standpoint of man's activities in relation to his natural surroundings and resources. PR: Geography 210.

340. **Geography of Europe** Three hours

A study of the important geographic concepts concerning man's activities in Europe and their importance to the United States and the rest of the world. A general overview will be made of Soviet European geography. PR: Geog. 210.

350. **Geography of Latin America** Three hours

This course is a regional study of South America, Central America, Mexico, and the West Indies. PR: 210.

360. Geography of Africa Three hours

A regional survey of the continent examining the great diversity that characterizes the area. Emphasis is placed on the complexity of the political pattern, the natural resources, economic development, and the physical setting. PR: 210.

370. Geography of Asia Three hours

The study of Asia for the purpose of understanding the various Asian nations, their economic-geographic regions, major commodities, industry, commerce, and major problems. PR: 210.

GEOLOGY

(Division of Science)

Geology is offered as a fulfillment of the General Education requirement and as an integral part of various science-oriented teaching fields.

Courses of Instruction

Geology

101. General Geology Three hours

Two lectures and one two-hour lab per week. This course covers the materials of the earth's crust and the physical and chemical processes operating in and on the earth.

102. General Geology Three hours

A continuation of 101. Application of physical and chemical processes to interpret the history of the earth. Includes a survey of evolution and the fossil record.

HEALTH, PHYSICAL EDUCATION, RECREATION, AND SAFETY

Health Education

The Division of Health Education, Physical Education, and Recreation offers the following programs associated with the Bachelor of Arts in Education: (1) A major teaching field in Health Education, grades 7 through 12, and (2) a subject specialization in Health Education, grades 1 through 9 or 7 through 9. The purpose of the programs is to prepare teachers for health instruction at the elementary, middle school, junior high and high school levels.

Single Teaching Field, Grades 7-12

Course Requirements				28 Sem. Hrs.
Health Related Sciences				6
PE	304	Human Anatomy and Physiology .... (PR: Biology 101, 102)	3	
PE	306	Psychomotor Learning and Development (PR: Psychology 101, PE 304)	3	

Health Concepts and Knowledge				13
HTH	100	Personal Health	3	
SAF	101	First Aid	2	
HTH	202	Community and Environmental Health (PR: Psychology 101, PE 100)	3	
SAF	203	General Safety Education	2	
HTH	370	Contemporary Health Issues (PR: HTH 100, Psychology 101)	3	
Health Programs				9
HTH	200	Foundations of Health Education	2	
HTH	310	School Health Programs (PR: HTH 100, Psychology 101)	3	
HTH	410	Seminar and Field Work in Health Education (PR: HTH 370)	4	

Subject Specialization, Grades 1-9 or 7-9

Course Requirements				25 Sem. Hrs.
Health Related Sciences				6
PE	304	Human Anatomy and Physiology (PR: Biology 101, 102)	3	
PE	306	Psychomotor Learning and Development (PR: Psychology 101, PE 304)	3	
Health Concepts and Knowledge				13
HTH	100	Personal Health	3	
SAF	101	First Aid	2	
SAF	203	General Safety Education	2	
HTH	202	Community and Environmental Health (PR: Psychology 101, PE 100)	3	
HTH	370	Contemporary Health Issues (PR: HTH 100, Psychology 101)	3	
Health Programs				6
HTH	310	School Health Programs (PR: HTH 100, Psychology 101)	3	
HTH	400	Health Education for the Elementary Schools (PR: HTH 310)	3	

Health Education

HTH 100 **Personal Health** 3 Sem. Hrs.

A unified approach to health and human nature, emphasizing an evaluation of personal responses to life. Sources of problems and conflicts, such as identity, conformity, academic pressures, addictions, and human sexuality are studied and discussed.

HTH 104 **Introduction to Human Anatomy and Physiology** 3 Sem. Hrs.
(Nursing Students Only)

A study of the basic structures with emphasis on those physiological concepts which help integrate the various systems to the total function of the human organism.

HTH 200 **Foundations of Health Education** 2 Sem. Hrs.

The historical, philosophical, sociological, and scientific foundations of health education.

HTH 202 **Community and Environmental Health** 3 Sem. Hrs.

Community health problems, emphasizing the psychological, sociological, and ecological aspects of environmental health conditions. (PR: Psychology 101, PE 100)

HTH 310 **School Health Programs** 3 Sem. Hrs.

A comprehensive approach to the development of school health programs based upon contemporary health needs and problems. (PR: HTH 100, Psychology 101)

HTH 370 **Contemporary Health Issues** 3 Sem. Hrs.

A study and analysis of the more critical health problems and issues confronting contemporary society. (PR: HTH 100, Psychology 101)

HTH 400 **Health Education for the Elementary School** 3 Sem. Hrs.

Study of those specific areas of health relating to the needs of elementary school children. (PR: HTH 310)

HTH 410 **Seminar and Field Work in Health Education** 4 Sem. Hrs.

Direct involvement with local public, voluntary health and associated agencies and scheduled seminars, a study of their functions relative to comprehensive programs of health education. (PR: HTH 370)

HTH 412 **Drug Abuse Education — Addictions and Dependencies** 2 Sem. Hrs.

Study and discussion of drug misuse and addiction and dependency related to drugs. Especial concern is given to the contemporary use of drugs by all age groups. Physiological, psychological and sociological implications are discussed.

HTH 415 **Human Sexuality and Sex Education** 2 Sem. Hrs.

Preparation of the student relative to the teaching of those physiological, psychological and sociological relationships inherent in human sexuality.

HTH 431 **Methods and Materials for Health Education** 2 Sem. Hrs.

Curriculum and methods of teaching health education, emphasizing those materials and techniques of instruction appropriate for grades 7-12.

Physical Education

The Division of Health Education, Physical Education and Recreation offers programs in Physical Education associated with both the Bachelor of Arts in Education and the Bachelor of Science degrees.

In the Bachelor of Science curriculum, a major program of study is offered in Physical Education for students interested in pursuing careers other than teaching which require knowledge in the area of Physical Education. In the Bachelor of Arts in Education curriculum, the following programs are offered: (1) a major teaching field in Physical Education, grades 7 through 12 and (2) a subject specialization in Physical Education, grades 1 through 9 or 7 through 9. The purpose of the programs is to prepare teachers for instruction in Physical Education at the elementary, middle school, junior high and high school levels.

Major Field
(Bachelor of Science)

Course Requirements					31 Sem. Hrs.
Sciences					6
PE	304	Human Anatomy and Physiology (PR: Biology 101, 102)	3		
PE	306	Psychomotor Learning and Development (PR: Psychology 101, PE 304)	3		
Movement Experiences					14
		Gymnasium and Field Experiences		2	
PE	108W	Fundamental Skills and Activities	2		
		or			
PE	118M	Fundamental Skills and Activities	2		
		Rhythms		2	
PE	248	Modern Dance	2		
		or			
PE	247	Folk and Square Dance	2		
		Aquatics		1	
PE	230	Intermediate Swimming	1		
PE	331	Lifesaving	1		
PE	332	Water Safety Instructors	1		
PE	350	Contemporary Aquatics	2		
		Electives		9	

The student is required to complete a minimum of 9 additional credit hours in those skills which will help insure a balance of competencies.

Professional Foundations and Theory				11
PE	250	Foundations of Physical Education	3	
PE	360	Evaluation and Measurement in Physical Education	2	
PE	361	Practicum in Evaluation and Measurement	2	
PE	362	Organization and Administration of Physical Education	2	
PE	408	Adapted Physical Education	2	

Curricula for Teaching Fields and Specializations in Physical Education

Single Teaching Field, Grades 7-12

Course Requirements					31 Sem. Hrs.
Sciences					6
PE	304	Human Anatomy and Physiology (PR: Biology 101, 102)	3		
PE	306	Psychomotor Learning and Development (PR: Psychology 101, PE 304)	3		
Movement Experiences					14
		Gymnasium and Field Experiences		2	
PE	108W	Fundamental Skills and Activities	2		
		or			
PE	118M	Fundamental Skills and Activities	2		
		Rhythms		2	

PE	248	Modern Dance	2	
		or		
PE	247	Folk and Square Dance	2	
		Aquatics		1
PE	230	Intermediate Swimming	1	
PE	331	Life Saving	1	
PE	332	Water Safety Instruction	1	
PE	350	Contemporary Aquatics	2	
		Electives		9

The student is required to complete a minimum of 9 additional credit hours to be selected from the following courses to help insure a balance of competencies in individual, dual, and team activities.

PE 126, 131, 136, 140W, 141W, 142W, 143W, 144W, 145W, 146W, 150M, 151M, 152M, 153M, 160M, 161M, 162M, 163M, 164M, 170M, 171M, 172M, 173M, 241, 242M, 243W, 245, 330.

Professional Foundations and Theory					11
PE	250	Foundations of Physical Education	3		
PE	360	Evaluation and Measurement in Physical Education	2		
PE	361	Practicum in Evaluation and Measurement	2		
PE	362	Organization and Administration of Physical Education	2		
PE	408	Adapted Physical Education	2		

It is recommended that all major students apply for membership in the local student HPER Association with Divisional approval.

Subject Specialization, Grades 1-9 or 7-9

Course Requirements					25 Sem. Hrs.
Sciences					6
PE	304	Human Anatomy and Physiology (PR: Biology 101, 102)	3		
PE	306	Psychomotor Learning and Development (PR: Psychology 101, PE 304)	3		
Movement Experiences					11
		Gymnasium and Field Experiences		2	
PE	108W	Fundamental Skills and Activities	2		
		or			
PE	118M	Fundamental Skills and Activities	2		
		Rhythms		2	
PE	248	Modern Dance	2		
		or			
PE	247	Folk and Square Dance	2		
		Aquatics		1	
PE	230	Intermediate Swimming	1		
PE	331	Life Saving	1		
PE	332	Water Safety Instructors	1		

PE	350	Contemporary Aquatics	2	
		Electives		6

The student is required to complete a minimum of 6 additional credit hours in those skills which will help insure a balance of competencies.

Professional Foundations and Theory				8
PE	250	Foundations of Physical Education	3	
PE	329	Physical Education for the Elementary School	3	
PE	408	Adapted Physical Education	2	

It is recommended that all subject specialization students apply for membership in the local student HPER Association with Divisional approval.

Courses of Instruction

Physical Education

PE 102W **Freshman Physical Education** 1 Sem. Hr.

Techniques of seasonal team, dual, and individual activities for women designed for the development of basic skills, knowledge and attitudes in physical education.

PE 108W **Fundamental Skills and Activities** 2 Sem. Hrs.

Introduces the student to a program of activities associated with teaching physical education, including those skill-progression patterns and techniques involved in performing specific activities and sports.

PE 114M **Freshman Physical Education** 1 Sem. Hr.

Techniques of seasonal team, dual, and individual activities for men designed for the development of basic skills, knowledge and attitudes in physical education.

PE 118M **Fundamental Skills and Activities** 2 Sem. Hrs.

Introduces the student to a program of activities associated with teaching physical education, including those skill-progression patterns and techniques involved in performing specific activities and sports.

PE 126 **Beginning Tennis** 1 Sem. Hr.

Introduces the student to basic skills, rules, game situations and team play.

PE 130 **Beginning Swimming** 1 Sem. Hr.

Specifically designed for the non-swimmer and those with minimal aquatic experience. Instruction in survival swimming, basic strokes, and lifesaving techniques necessary to achieve the goal of making each individual "water-safe."

PE 131 **Diving** 1 Sem. Hr.

Introduces the student to techniques in the art of diving, including an understanding of rules and scoring.

PE 136 **Beginning Bowling** 1 Sem. Hr.

Introduces the skills of bowling and provides practice in game situations.

PE 147 **Social Dance** 1 Sem. Hr.

Provides opportunity for the student to cultivate dance etiquette, develop grace and poise, and teaches various social dances such as the waltz, fox trot, polka and tango.

Instruction in Sport

The following courses are open to all students with sufficient background in the techniques and methods of each sport. Consent of the instructor is required. One semester hour credit will be given upon satisfactory completion of each course.

MEN

PE	150M	Football	PE	163M	Basketball
PE	151M	Soccer	PE	164M	Swimming
PE	152M	Physical Development	PE	170M	Baseball
PE	153M	Cross Country Track	PE	171M	Tennis
PE	160M	Tumbling and Apparatus	PE	172M	Golf
PE	161M	Bowling	PE	173M	Track and Field
PE	162M	Wrestling			

WOMEN

PE	140W	Field Hockey	PE	144W	Softball
PE	141W	Physical Development	PE	145W	Tumbling and Apparatus
PE	142W	Volleyball	PE	146W	Tennis
PE	143W	Basketball			

PE 214W **Officiating Sports** 2 Sem. Hrs.

The technical and theoretical aspects of officiating Fall and Winter Sports. PR: Consent of instructor.

PE 215W **Officiating Sports** 2 Sem. Hrs.

The technical and theoretical aspects of officiating late Winter and Spring sports. PR: Consent of instructor.

PE 220M **Officiating Sports** 2 Sem. Hrs.

The technical and theoretical aspects of officiating Fall and Winter Sports. PR: Consent of Instructor.

PE 221M **Officiating Sports** 2 Sem. Hrs.

The technical and theoretical aspects of officiating late Winter and Spring sports. PR: Consent of instructor.

PE 230 **Intermediate Swimming** 1 Sem. Hr.

Refinement of the fundamental skills of swimming including the eight basic strokes.

PE 241 **Individual and Dual Sports** 2 Sem. Hrs.

Co-educational instruction in skill-progression, including the study of methods in teaching individual and dual sports.

PE 242M **Team Sports** 2 Sem. Hrs.

Acquaints male students with the skill-progression techniques and teaching methods of team sports.

PE 243W **Team Sports** 2 Sem. Hrs.

Acquaints female students with the skill-progression techniques and teaching methods of team sports.

PE 245 Gymnastics 2 Sem. Hrs.

An introduction to the knowledges and skills specific to the competitive events of: floor exercise, vaulting, parallel bars, rings, balance beam, side horse, high bar, and trampoline.

PE 247 Folk and Square Dance 2 Sem. Hrs.

A survey of the history and development of folk and square dancing. Development of necessary skills for participation and teaching.

PE 248 Modern Dance 2 Sem. Hrs.

An introduction to modern dance, providing instruction in space, time, quality of movement, dance positions, creative dance techniques, composition, and methods of teaching rhythmic patterns.

PE 250 Foundations of Physical Education 3 Sem. Hrs.

The historical, philosophical and scientific foundations of physical education.

PE 304 Human Anatomy and Physiology 3 Sem. Hrs.

Study of the human organism as an integrated whole, emphasizing those relationships between the systems of the body as they relate to total function. (PR: Biology 101, 102)

PE 305 Kinesiology 3 Sem. Hrs.

The science of body movements and its application to daily living which includes knowledge of the basic mechanics of human motion.

PE 306 Psychomotor Learning and Development 3 Sem. Hrs.

Psychomotor patterns of development from infancy through adulthood, including the study of motor learning and kinesthesis. (PR: Psychology 101, PE 304)

PE 314W Theory of Coaching 2 Sem. Hrs.

The psychological, philosophical, and technical aspects of coaching Fall and Winter sports.

PE 315W Theory of Coaching 2 Sem. Hrs.

The psychological, philosophical, and technical aspects of coaching late Winter and Spring sports.

PE 320M Theory of Coaching 2 Sem. Hrs.

The psychological, philosophical, and technical aspects of coaching Fall and Winter sports.

PE 321M Theory of Coaching 2 Sem. Hrs.

The psychological, philosophical, and technical aspects of coaching late Winter and Spring sports.

PE 329 Physical Education for the Elementary School 3 Sem. Hrs.

Developmental movement experiences, including games and rhythms suitable for elementary school children, including curriculum planning, methods, materials and micro-teaching experience in local elementary schools.

PE 330 **Advanced Swimming** 1 Sem. Hr.

Instruction in advanced skills in the major areas of aquatics.

PE 331 **Lifesaving** 1 Sem. Hr.

Instruction in all aspects of lifesaving including the American Red Cross techniques.

PE 332 **Water Safety Instruction** 1 Sem. Hr.

Methods of instruction in lifesaving and water safety. Satisfactory completion qualifies student for the American Red Cross Instructors Certificate for teaching Senior Lifesaving.

PE 350 **Contemporary Aquatics** 2 Sem. Hrs.

A complete analysis of the field of aquatics including the evaluation of swimming, contemporary swimming mechanics and introduction to swimming pool administration and operation. Eight weeks lecture and eight weeks laboratory.

PE 360 **Evaluation and Measurement in Physical Education** 2 Sem. Hrs.

Study of measureable and evaluative techniques applicable to students and physical education programs. PR: consent.

PE 361 **Practicum in Evaluation and Measurement** 2 Sem. Hrs.

Practical application and experience in the evaluation and measurement of students and physical education programs. PR: consent.

PE 362 **Organization and Administration of Physical Education** 2 Sem. Hrs.

Physical education as an integral part of the total education curriculum, emphasizing program planning, organization, and administration of the service program, intramurals and athletics.

PE 407 **Physiology of Exercise** 2 Sem. Hrs.

Physiological relationships necessary for understanding the response of the body to exercise. Emphasis is placed on aspects of physical fitness and conditioning for the individual throughout life.

PE 408 **Adapted Physical Education** 2 Sem. Hrs.

A study of contemporary methods in adapted and special physical education programs including teaching techniques and program-planning.

PE 431 **Methods and Materials in Teaching Physical Education** 2 Sem. Hrs.

Study and discussion of curriculum and methods of teaching physical education, emphasizing the materials and techniques of instruction appropriate for grades 7-12.

Recreation

In the Bachelor of Science curriculum, the Division of Health Education, Physical Education and Recreation offers a major field of study in Recreation. The program is designed for students interested in pursuing careers in recreational-related fields.

MAJOR FIELD

(Bachelor of Science)

Course Requirements					45 Sem. Hrs.
Professional					8
PE	250	Foundations of Physical Education	3		
REC	282	Community and Industrial Education	3		
PE	362	Organization and Administration of Physical Education	2		
REC	384	Camping and Youth Organizations	3		
REC	385	Recreational Leadership	3		
REC	386	Recreational Field Work	3		
Movement Experiences					12
PE	108W	Fundamental Skills and Activities	2		
		or			
PE	118M	Fundamental Skills and Activities	2		
		Electives		10	
		To be determined by student and advisor relative to student progress and interests.			
Health and Safety					4
HTH	100	Personal Health	2		
SAF	101	Accident and Disaster Control Systems	2		
SAF	203	General Safety Education	2		
HTH	202	Community and Environmental Health (PR: Psychology 101, PE 100)	3		
Rhythms and Creative Arts					12
ART	140	Art Structure and Applied Design	3		
PE	147	Social Dance	1		
PE	248	Modern Dance	2		
PE	247	Folk and Square Dance	2		
IE	186	Recreational Crafts	2		
MUS	231	Elementary Music I	3		
IE	286	Crafts	2		
IE	386	Industrial Arts for the Elementary Teacher	2		
Dra.	151	Play Production	2		
Dra.	338	Children's Drama	3		
Dra.	339	Creative Drama Practicum	1		
Dra.	340	Children's Theatre Practicum	1		
Journ.	240	Reporting	1		
Biological Sciences					9
Biol.	101, 102	Introduction to Biology	6		
		Additional 3 semester hours to be selected from the following:			
Biol.	210	Field Studies in Biology (PR: 101, 102)	3		
Biol.	242	Bio-Ecology (PR: 101, 102)	3		
Biol.	315	Field Zoology (PR: 101, 102)	3		
Biol.	330	Field Botany (PR: 101, 102 or consent of instructor)	3		

Courses of Instruction
Recreation

REC 282 **Community and Industrial Recreation** 3 Sem. Hrs.

Organization and supervision of recreation for community and industrial groups.

REC 384 **Camping and Youth Organizations** 3 Sem. Hrs.

Study of camping and organizations serving youth.

REC 385 **Recreational Leadership** 3 Sem. Hrs.

Practical experience in organizing and directing group recreational activities. (PR: Consent of Instructor)

REC 386 **Recreational Field Work** 3 Sem. Hrs.

Planned observation of playgrounds and recreation centers, including seminars relevant to observations.

Courses of Instruction
Safety Education

SAF 101 **Accident and Disaster Control Systems** 2 Sem. Hrs.

Instruction related to preparedness for emergencies and disasters prevalent in our society, including first aid treatment of injuries and other emergency conditions.

SAF 203 **General Safety Education** 2 Sem. Hrs.

Designed to acquaint the student with the purpose and need of safety education as an integral component of the overall education program. Areas emphasized will be the teaching and planning of a school safety program and the legal aspects involved.

HISTORY
(Division of Social Science)

The study of history is essential to the liberal arts and social sciences, areas which overlap those of the historian. To meet general studies requirements a student may choose from introductory surveys in United States history and World Civilizations. For purposes of liberal education a student may elect several courses or choose history as a minor field. A full range of courses is available to the history major, including extensive coverage of United States and European history and surveys of the major regions of the world. Students in other programs may also benefit from historical study and thought, which they may use as a guide for realistic thinking in forming their personal philosophies.

What is history? Every field of thought and activity has a history, which is the pattern of its development through time. The work of the historian is to discover these patterns of development and combine them into a coherent exposition and interpretation of human experience. He does this by reasoning inductively from the evidences of the past, such as written documents, verbal testimony, and significant physical remains. The historian is able to select freely from the insights and methods of many different sciences and disciplines.

History

MAJOR		30 Sem. Hrs.
Required Courses		
107, 108	United States History	6
111, 112	History of Civilization	6
470	Seminar	3
Elective Courses		15

Fifteen semester hours in history are to be elected with the advisor's approval but must include at least one course from each of the three groups listed below.

GROUP I	United States History	
302	West Virginia	3
312	Diplomatic History of the United States	3
315	Colonial America	3
316	The American Federal and National Period	3
317	Civil War and Reconstruction	3
318	Gilded Age to the Great Crash	3
319	Recent America	3
320	American Economic History	3
326	American Constitutional Development	3
371	Social and Intellectual History of the United States I	3
372	Social and Intellectual History of the United States II	3
380	Afro-American History and Culture	3
381	Black Man in America	3
390	The Ecology of Man	3
GROUP II	European History	
305	England I	3
306	England II	3
325	Medieval Europe	3
330	Early Modern Europe	3
331	The Age of the French Revolution	3
340	Europe in the Nineteenth Century	3
341	Recent Europe	3
342	Diplomatic and Military History of Europe	3
360	European Intellectual History	3
450	Russia	3
451	Soviet Union	3
452	Eastern Europe	3
GROUP III	World—Regional History	
350	Latin America: Colonial Period	3
351	Latin America: National Period	3
353	Africa I	3
354	Africa II	3
410	Area Study	arranged
420	East Asia I	3
421	East Asia II	3
423	Southeast Asia	3

MINOR		18 Sem. Hrs.
Required Courses		
107, 108	United States History	6
111, 112	History of Civilization	6
Elective Courses		6

Courses of Instruction

History

Introductory:

107. United States History I Three hours

The Age of Discoveries to the Reconstruction Era.

108. United States History II Three hours

The Reconstruction era to the present time.

111. History of Civilization I Three hours

The earliest times to the beginning of the modern era.

112. History of Civilization II Three hours

The beginning of the modern era to the contemporary period.

Advanced:

302. West Virginia Three hours

West Virginia history, government, and geography from the first settlements to the present time. PR: History 107, 108.

305. England I Three hours

The British Isles from Roman times to the Glorious Revolution. PR: 111, 112.

306. England II Three hours

The British Isles, the Empire and the Commonwealth from 1689 to the present. PR: 112.

312. Diplomatic History of the United States Three hours

The foreign relations of the United States and the development of basic American foreign policies from the colonial period to the present. PR: History 107, 108.

315. Colonial America Three hours

The American colonies from their beginnings to the end of the Revolutionary War. PR: History 107.

316. American Federal and National Period Three hours

United States history from the Revolutionary War to the close of the Mexican War. PR: History 107.

317. Civil War and Reconstruction Three hours

The victory of the Federal Union over sectional division. PR: History 107, 108.

318. The Gilded Age to the Great Crash Three hours

The United States from 1876 to 1929. PR: History 108.

319. Recent America Three hours

America's emergence as a leading world power. PR: History 108.

320. American Economic History Three hours

Economic development of the United States from the colonial period to the present. PR: History 107, 108.

325. **Medieval Europe** Three hours

Formative development in intellectual, social, economic, and political history from the fall of Rome. PR: History 111.

326. **American Constitutional History** Three hours

The origins of the Constitution of 1787 and the role of leading jurists and landmark cases in shaping the American Constitutional traditions. PR: History 107.

330. **Early Modern Europe** Three hours

From the Renaissance and Reformation to the Enlightenment. PR: History 111, 112.

331. **The Age of the French Revolution** Three hours

The conflict of revolutionary and counter-revolutionary forces from the Enlightenment of the 18th Century to the Revolutions of 1848. PR: History 112.

340. **Europe in the Nineteenth Century** Three hours

Nationalism, imperialism, and industrial development before the First World War. PR: History 112.

341. **Recent Europe** Three hours

Problems of readjustment in the twentieth century: the League of Nations, Fascism and Communism, the Second World War, the Cold War, the Common Market. PR: History 112.

342. **Diplomatic and Military History of Europe** Three hours

The development of military and diplomatic techniques and foreign policies from the Middle Ages to the present day. PR: History 112 or consent of instructor.

350. **Latin America: Colonial Period** Three hours

Conquests and colonies in South America from 1492 to 1821. PR: History 111, 112.

351. **Latin America: National Period** Three hours

Latin American nations from 1821 to the present. PR: History 111, 112.

353. **Africa I** Three hours

Development of Africa from the emergence of man in the valleys of central Africa to the official end of the slave trade. PR: History 111 or consent of instructor.

354. **Africa II** Three hours

From the European penetration and colonization of Africa to the recent efforts of independent African states to establish viable systems of government. PR: History 112 or consent of instructor.

360. **European Intellectual History** Three hours

Main currents of European thought and their important relationships with their historical setting. PR: History 111, 112.

371. **Social and Intellectual History of the U.S. I** Three hours

Main currents of social and intellectual history of the U.S. from the colonial period to the Civil War. PR: 107, 108.

372. Social and Intellectual History of the U.S. II Three hours

Main currents of social and intellectual history of the U.S. from Reconstruction to the present. PR: 107, 108.

380. Afro-American History and Culture Three hours

The Negro in American life to the Civil War.

381. Black Man in America Three hours

The history and culture of the Black Man in the United States from 1865 to the present. (Credit in history or sociology)

390. The Ecology of Man Three hours

A transdisciplinary study of man's relationship to the natural environment, including problems of technology and pollution; historical and philosophical origins of conservation; ecological ethics; and environmental planning.

410. Area Study Arranged

A study of a region of the world conducted on an interdisciplinary basis. The area and time span studied will be determined by the instructor. PR: History 112.

420. East Asia I Three hours

Historical and cultural development of China, Japan, and Korea to 1800. PR: History 111 or consent of instructor.

421. East Asia II Three hours

Impact of the West on China, Japan, and Korea from 1800 to the present. PR: History 112 or consent of instructor.

423. Southeast Asia Three hours

Primary emphasis on India and Pakistan as a culture center, with major topics including Western colonialism; movements of nationalism; problems of independence; and international relations. PR: History 112.

450. Russia Three hours

Russian national development from its origin to the Revolutions of 1917. PR: 112.

451. Soviet Union Three hours

Development of the Soviet Union from the Soviet Revolution to the present. PR: History 112.

452. Eastern Europe Three hours

The peoples of Eastern Europe from Medieval times to the present, excluding Russia. PR: History 111 or 112.

460. Guided U. S. Historical Study Three hours

Intensive reading on selected topics in American history. To be taken the semester prior to entering the Professional Block. PR: Hist. 107, 108.

461. Guided World Historical Study Three hours

Intensive reading on selected topics in World History. To be taken the semester prior to entering the Professional Block. PR: Hist. 111, 112.

470. **Seminar** Three hours

Intensive study of a selected topic with emphasis on individual research, report writing, and discussion. PR: consent of instructor.

HOME ECONOMICS

Home Economics has the dual role of first, devolping concepts, skills and values that contribute to family life and secondly, teaching these skills for gainful employment. It has drawn basic principles from the fine arts, physical and biological sciences, social sciences and practical arts, applying them to human development and family living. Home Economics includes a study of: enjoyable foods that are nutritionally adequate; artistic clothing that is inexpensive; convenient houses that are comfortable; consumer knowledge of time, money and energy; and families in which child rearing and relationships are understood so as to improve family life.

MAJOR 36 Sem. Hrs.

Required Courses

101	Principles of Clothing Construction	2
102	Advanced Clothing Construction	3
103	Principles of Clothing Selection	2
201	Principles of Food Selection and Preparation	3
202	Advanced Foods	3
210	Textiles	3
251	Applied Design	2
303	Nutrition	3
310	Family Life Education	3
312	Consumer Education	3
315	Home Management	3
320	Home Planning and Furnishing	3
330	Child Care and Development	3

Required Related Courses

Language—Modern Foreign	6
Chemistry	8
Electives in Science (Consent of Advisor)	4

MINOR 26-27 Sem. Hrs.

Same requirements as listed under Home Economics Subject Specialization for grades 1-9 or 7-9.

Curricula for Teaching Fields and Specializations in Home Economics

Vocational, Grades 7-12 46 Sem. Hrs.

Clothing—Textiles

*101	Principles of Clothing Construction	2
*102	Advanced Clothing Construction	3
*103	Principles of Clothing Selection	2
*210	Textiles	3

Family Relations—(Child Development)

*310	Family Life	3
*330	Child Care and Development	3
331	Adolescent Development	2

Foods—Nutrition

*201	Principles of Food Selection and Preparation	3
*202	Advanced Foods	3
*303	Nutrition	3

Home Management, Household Equipment, Family Economics

*312	Consumer Education	3
*315	Home Management	3
316	Household Equipment	2

Housing, Home Furnishing

*251	Applied Design	2
*320	Home Planning and Furnishing	3
351	Home Arts	3
431	Meth. & Mat. in Teaching Home Economics	3

General Chemistry 101 and 102 strongly recommended.

Subject Specialization, Grades 1-9, 7-9 — 26-27 Sem. Hrs.

*101	Principles of Clothing Construction	2
*103	Principles of Clothing Selection	2
*201	Principles of Food Selection & Preparation	3
	or	
*202	Advanced Foods	3
251	Applied Design	2
*303	Nutrition	3
*310	Family Life	3
*312	Consumer Education	3
	or	
*315	Home Management	3
210	Textiles	3
	or	
316	Household Equipment	2
*320	Home Planning and Furnishing	3
*330	Child Care and Development	3

* Courses marked with an asterisk must be completed prior to admission to the Professional Block.

Courses of Instruction
Home Economics

101. Principles of Clothing Construction — **Two hours**

The basic principles of construction used in making simple garments for school and street wear are introduced. The construction problems are adapted to previous experience.

102. Advanced Clothing Construction — **Three hours**

Continuation of Home Economics 101

The use of detailed and tailored finishes. Problems of fitting in the construction of suits and varied types of clothing are implemented.

103. Principles of Clothing Selection — **Two hours**

A course designed to form a basis for the selection of clothing for the individual and her family. Guidelines are based on individual qualities, related art principles, consumer economics, cultural background and psychological influences.

110. Elementary Nutrition Two hours

A study of principles of nutrition and their application to the selection of food for individuals throughout the life cycle under varying economic, social and cultural situations.

201. Principles of Food Selection and Preparation Three hours

A study and application of food principles to food preparation including selection, marketing, nutritional value, storage, preservation, and meal service. The class meets for lecture two times a week with one two-and-one-half hour lab period per week.

202. Advanced Foods Three hours

A continuation of Home Economics 201. Emphasis is placed on preparation and demonstration of foods. The theory and practice of preparing and serving family meals requires the management of time, energy and money spent for food.

210. Textiles Three hours

A study of textiles from raw materials through the manufacturing and finishing of fabrics as related to performance, quality, care and cost for clothing and household fabrics.

251. Applied Design Two hours

The development of design principles through experimentation with line, form, space, color and texture. This course is designed to exemplify good taste in selection and use of materials for daily living.

303. Nutrition Three hours

A study of the principles of nutrition with application of planning adequate diets for normal individuals and family groups of varying cultural and economic levels. National and international problems of nutrition are included.

305. Nutrition in the Public Schools Three hours

A course presenting the essential principles of nutrition for the teacher in public schools. Included are methods of teaching nutrition to children in their different grade levels. The Federal school lunch program is studied as an integral part of the school nutrition program.

310. Family Life Education Three hours

A study of the interpersonal relationships of family members as they are affected by modern living. Basic factors in personality development are studied as they affect dating and engagement. Marriage adjustment and beginning family interactions are included.

312. Consumer Education Three hours

A study of the selection of consumer goods and factors affecting selection such as labeling, advertising, and consumer legislation and credit. Car, health, and life insurance for family security, as well as social security, are studied. Wills and contracts are included.

315. Home Management Three hours

A study of the management process and its effects on the family. Decision making, economics, effective use of resources and the interaction of values, standards, and goals are all considered for the family. Work simplification, work area arrangement, storage and safety are applied to the home.

316. **Household Equipment** Two hours

A course based on principles of operation, care, expected performance, intelligent selection, and effective use of equipment in the home. Kitchen and laundry planning, plus laundry techniques are included.

320. **Home Planning and Furnishing** Three hours

A course designed to help a family analyze housing needs both physiologically and psychologically. House plans and furnishings are made in relation to use, economy, beauty, and individuality. Includes one laboratory experience.

330. **Child Care and Development** Three hours

A study of the nature, nurture and development of children from prenatal through pre-school. The changing needs of the child and the variables affecting development are included.

331. **Adolescent Development** Two hours

This course is a study of the important aspects of the adolescent's growth, including his relationship to his family, peer group, and to society in his quest for identity.

351. **Home Arts**

A study of the principles of design. Students will gain a basic understanding of home and applied arts through the use of color, texture, and line. Articles will be constructed through the techniques of stitchery, textile printing, and handicrafts.

402. **Tailoring** Three hours

The construction of a basic dress, suit, and accessories with emphasis on selection of fabric, fitting, and tailoring details. Consult instructor for prerequisites.

431. **Methods and Materials in Teaching Home Economics** Three hours

This is a required course for student teachers. The philosophy and goals of home economics, organization of teaching materials, and techniques, and curriculum planning are included. Selection of equipment and supplies necessary to managing a home economics department is discussed.

INDUSTRIAL-TECHNICAL EDUCATION

The division of Industrial-Technical Education is organized to present programs including Industrial Arts, Engineering Technology, and a two-year Technical curriculum. Industrial Arts provides a teaching field for those interested in secondary education. Engineering Technology as a major for those pursuing the Bachelor of Science degree leads to industrial employment at the middle management level. The two-year technical curriculum is designed to teach the job-entry skills with an educational foundation on which to build advanced studies.

In each of the three curricula, students are required to utilize sound intellectual decision-making processes. Those who are involved in scientific industrial processes must be mindful of the humanitarian and ecological goals of mankind.

Engineering Technology

The Engineering Technology program provides for a broad general education in mathematics, physical science, technology, business, and the humanities with emphasis upon an understanding of the relationship of these areas to the technological processes of industry.

The curricula of the engineering colleges have tended, in recent years, toward preparing the new engineers for the much needed research, design, and development aspects of industry. This trend has created a shortage of personnel at the level which the newly graduated engineer once occupied. The graduate engineering technologist will be prepared for employment in such industrial positions as manufacturing engineering, product development, technical sales and service, and industrial relations.

The engineering technologist reflects an image which identifies him as a creative and resourceful manager, technician, businessman, supervisor, and diplomat. He must be able to function effectively in a variety of industrial positions which require a knowledge of design, production, and maintenance of industrial materials and equipment, as well as a knowledge of management, and supervision of personnel.

Required Foundation Courses 33 Sem. Hrs.

103	Basic Electricity	3
112	Basic Electronics	4
121	Drafting	3
170	Statics	3
270	Strength of Materials	3
271	Strength of Materials Laboratory	1
180	Materials & Processes of Industry	2
190	Industrial Orientation	NC
191	Personnel Prob. & Labor Relations	2
492	Work Study Seminar	4
493	Work Experience Laboratory	8

I.E. 492 and 493 may be waived for students who are employed full or part time if such employment is approved by the Director of Technical Education.

Required Related Courses 28 Sem. Hrs.

Math.	101	Applied Tech. Math I	3
Math.	102	Applied Tech. Math II	3
Chem.	101-102	General Chemistry	8
Phy.	101-102	Introduction to Physics	8
Bus.	309	Industrial Organization & Mgt.	3
Bus.	201	Principles of Accounting	3

Students must choose one of the following options.

CONSTRUCTION TECHNOLOGY OPTION 20 Sem. Hrs.

224	Architectural Drafting I	4
274-374	Graphic Solutions I & II	2-2
321	Structural Drafting	2
322	Architectural Design	2
372	Surveying	2
373	Computing & Estimating	2
375	Plumbing & Sanitation	2
376	Heating & Air Conditioning	2
392	Blueprint Reading	2-3
473	Contracts & Specifications	2
474	Codes & Practices	2

DRAFTING TECHNOLOGY OPTION 20 Sem. Hrs.

221	Graphic Illustration	2
224	Architectural Drafting	4
225	Jigs, Fixtures and Machine Design	4
274-374	Graphic Solutions I & II	2-2
320-420	Drafting Room Techniques I & II	2-2
321	Structural Drafting	2
322	Architectural Design	2
323-423	Electrical Drafting I & II	2-2
373	Computing & Estimating	2
421	Drafting, Planning & Scheduling	2
422	Architectural Drafting III	2
473	Contracts and Specifications	2
474	Codes and Practices	2

ELECTRICAL-ELECTRONIC TECHNOLOGY OPTION 20 Sem. Hrs.

203	Electrical Measurements Laboratory	4
206	Electrical Machinery	4
315	Industrial Electronics & Controls	2
316-317	Advanced Electronics I & II	2-2
323-423	Electrical Drafting I & II	2-2
379	Industrial Economy	3
415	Electrical Maintenance	2
416-417	Advanced Electrical Theory I & II	2-2

INDUSTRIAL TECHNOLOGY OPTION 20 Sem. Hrs.

171	Machine Shop	4
192	Personnel Administration	2
315	Industrial Electronics & Controls	2
370-470	Manufacturing Processes I & II	2-2
377	Time & Motion Study	2
378	Plant Layout & Materials Handling	2
379	Industrial Economy	3
392	Blueprint Reading	2-3
477	Industrial Management	2
478	Production Controls	2

MECHANICAL TECHNOLOGY OPTION (Engineering) 20 Sem. Hrs.

171	Machine Shop	4
206	Electrical Machinery	4
245	Hydraulics	2
274-374	Graphic Solutions I & II	2-2
345	Pneumatics	2
360	Metallurgy	2
370-470	Manufacturing Processes I & II	2-2
371	Thermodynamics	3
379	Industrial Economy	3
445	Fluid Mechanics	3
475	Dynamics	3

MECHANICAL TECHNOLOGY OPTION (Power Mechanics) 20 Sem. Hrs.

148	Engine Theory I	4
149	Power Transfer Theory I	4
150	Carburetion & Ignition Theory I	4
151	Hydraulic & Suspension Systems Theory I	4
371	Thermodynamics	3
445	Fluid Mechanics	3

PRINTING TECHNOLOGY OPTION 20 Sem. Hrs.

135	Printing Processes	3
138	Composition & Photo Mechanical Preparation	3
231	Image Transfer Mechanisms	3
232	Continuous Tone Photography	2
235	Estimating	3
236	High Contrast Photography	3
237	Layout & Design	3
331	Commercial Graphics	3
333	Printing Techniques I	2
334	Advance Continuous Tone Photography	3
335	Printing Plant Management	3
433	Printing Techniques II	2
434	Color Separation	3
435	Printing Equipment Design & Maintenance	3

Required related courses for Printing Technology Option 2 Sem. Hrs.

Bus. Ed.	101	Beginning Typing or	
	102	Intermediate Typing	2

Curricula for Teaching Fields and Specializations in Industrial Arts

Industrial Arts Education at Fairmont State College is a four-year program leading to the Bachelor of Arts Degree in Education. Its graduates are certified to teach industrial arts in the junior and senior high schools in West Virginia. The course of study was organized in 1947 and its graduates are serving the schools of this and many other states as teachers, supervisors, and administrators of industrial arts and vocational education. The Fairmont Plan for teaching industrial arts personnel is a comprehensive course of study in which the technical subjects are closely correlated with general education, the sciences, humanities, and fine arts with emphasis upon an understanding of the relationships of these areas to the technological processes of industry.

Industrial Arts (Comprehensive grades 7-12) 59 Sem. Hrs.

Foundation Courses (required) 35 Sem. Hrs.

A. Education in Technology 12 Sem.Hrs.

*180	Materials and Processes of Industry	2
*181	Multiple Activities I	2
*281	Multiple Activities II	2
*380	Man and Technology	2
*381	Organization & Administration of Industrial Arts	2
*481	Multiple Activities III	2

B. Technical Area 21 Sem. Hrs.

1. Communications

103	Basic Electricity	3
121	Drafting	3
135	Printing Processes	3

2. Production

164	Wood Technology	3
169	Metal Processing	3
284	Plastics I or	
289	Ceramics	2

3. Power and Transportation

152	Elements of Transportation	4

C. Education 2 Sem. Hrs.

431	Methods and Materials of Teaching Industrial Arts	2

Thirty-four hours of technical work must be completed before admission to the Block.

Areas of Specialization

A student electing a comprehensive program shall complete two Unit Laboratory specializations in addition to the foundation courses. Each Unit Laboratory shall consist of a minimum of twelve semester hours of credit. Of the twenty-four hours needed for the two Unit Laboratory specializations, the student may count not more than six hours in allied studies such as marketing, economics, management, computer science, technical writing, and the engineering sciences provided that such studies will reinforce, strengthen, or expand the competency of the individual student electing to use this option. The hours in the allied studies may be limited to one Unit Laboratory or distributed between the two specializations in any combination. This option or any elective substitution must have the approval of the department chairman.

Unit Laboratory Specializations

Construction

224	Architectural Drafting I	4
372	Surveying	2
373	Computing & Estimating	2
375	Plumbing & Sanitation	2
376	Heating & Air Conditioning	2
473	Contracts & Specifications	2
474	Codes & Practices	2

Drafting

224	Architectural Drafting I	4
225	Jigs, Fixtures, and Machine Design	4
221	Graphic Illustration	2
320	Drafting Room Techniques I	2
321	Structural Drafting	2
420	Drafting Room Techniques II	2

Electives: 274, 285, 322, 323, 374, 421, 422.

Electricity/Electronics

112	Basic Electronics	4
203	Electrical Measurements	4
206	Electrical Machinery	4
315	Industrial Electronics & Control	2
316	Advanced Electronics I	2
317	Advanced Electronics II	2

Electives: 323, 415, 416, 417, 423.

Graphic Arts

138	Composition & Photo Mechanical Preparation	3
231	Image Transfer Mechanisms	3
236	High Contrast Photography	3
237	Layout & Design	3

Electives: 232, 331, 333, 334, 433, 434.

Materials Testing

170	Statics	3
203	Electrical Measurements	4
270	Strength of Materials	3
271	Strength of Materials Laboratory	1
360	Metallurgy	2

Metals

163	Sheet Metal I	2
168	Welding I	4
171	Machine Shop	4
263	Sheet Metal II	2
360	Metallurgy	2
370	Manufacturing Processes I	2
470	Manufacturing Processes II	2
485	School Shop Maintenance II	2

Electives: 261, 262.

Power

148	Engine Theory	4
149	Power Transfer Theory	4
150	Carburetion & Ignition Theory	4
151	Hydraulic & Suspension System	4

Electives: 240, 241, 242, 243, 245, 345.

Woods

268	Building Construction	4
382	Furniture Construction & Design	2
385	School Shop Maintenance I	2
391	Wood Finishing	2
482	Cabinet Making	2
491	Woodworking III	2

GENERAL SHOP CERTIFICATION,

Single Teaching Field, Grades 7-12 35 Sem. Hrs.

A. Education in Technology 12 Sem. Hrs.

*180	Materials and Processes of Industry	2
*181	Multiple Activities I	2
*281	Multiple Activities II	2
*380	Man and Technology	2
*381	Organization & Administration of Industrial Arts	2
*481	Multiple Activities III	2

B. Technical Areas 21 Sem. Hrs.

1. Communications

103	Basic Electricity	3
121	Drafting	3
135	Printing Processes	3

2.	Production		
164	Wood Technology	3	
169	Metal Processing	3	
284	Plastics I or		
289	Ceramics	2	
3.	Power and Transportation		
152	Elements of Transportation	4	
C.	Education		2 Sem. Hrs.
431	Methods and Materials of Teaching Industrial Arts	2	
	(Student may choose to take Special Methods in either teaching field)		

* Courses marked with an asterisk must be completed prior to admission to the Professional Block.

Students pursuing a General Shop Certification as a first field will be required to qualify in a second teaching field.

The General Shop Certification will qualify for a second teaching field for those having a first teaching field in another discipline.

A student selecting the General Shop Certification may qualify for any of the approved Unit Laboratory specializations by completing six (6) hours of credit from the desired technical area which must be in addition to the minimal hours required for the General Shop Certification.

The Two-Year Technical Education Curriculum

The Two-Year Technical Education Curriculum culminates in a Certificate of Associate in Science. The Two-Year program permits those who desire to prepare themselves, in a short period of time, to accept industrial responsibilities in the occupational area between the craftsman and the engineer at the end of the area closest to the craftsman. Industry needs trained personnel to perform skillful and demanding processes, to supervise the work of others, and to assist technicians and engineers. If he chooses, the student may complete the work necessary for the baccalaureate degree without appreciable loss of credit.

The requirements for the options in construction, drafting, electrical-electronics, mechanical, mechanical power are listed below. The requirements for the printing technology option are listed separately at the end of this section.

GENERAL EDUCATION				29 Sem. Hrs.
Eng.	104, 108	Written English	6	
Math.	101	Applied Tech. Math I	3	
Math.	102	Applied Tech. Math II	3	
Phy.	101, 102	Introduction to Physics	8	
Econ.	200	Economics	3	
Psych.	101	General Psychology	3	
Bus.	309	Industrial Organization & Mgt.	3	

FOUNDATION COURSES			33 Sem. Hrs.
103	Basic Electricity	3	
112	Basic Electronics	4	
121	Drafting	3	
170	Statics	3	
180	Materials & Processes of Industry	2	
190	Industrial Orientation	0	

191	Personnel Prob. & Labor Relations	2
270	Strength of Materials	3
271	Strength of Materials Laboratory	1
492	Work Study Seminar	4
493	Work Experience Laboratory	8

I.E. 492 and 493 may be waived for students who are employed full or part-time if such employment is approved by the Director of Technical Education.

Eight semester hours of credit in any one of the following groups, in addition to the foundation courses, will constitute a major unit of work in the respective area of specialization.

CONSTRUCTION TECHNOLOGY OPTION			8 Sem. Hrs.
164	Wood Technology	4	
224	Architectural Drafting	4	
366-466	Construction Theory & Lab. I & II	2-2	
372	Surveying	2	
375	Plumbing & Sanitation	2	
376	Heating & Air Conditioning	2	
392	Blueprint Reading	2-3	
DRAFTING TECHNOLOGY OPTION			8 Sem. Hrs.
221	Graphic Illustration	2	
224	Architectural Drafting I	4	
225	Jigs, Fixtures and Machine Design	4	
320-420	Drafting Room Techniques I & II	2-2	
321	Structural Drafting	2	
322	Architectural Design	2	
422	Architectural Drafting III	2	
ELECTRICAL-ELECTRONIC TECHNOLOGY OPTION			8 Sem. Hrs.
203	Electrical Measurements	4	
206	Electrical Machinery	4	
315	Industrial Electronics & Controls	2	
316	Advanced Electronics I	2	
317	Advanced Electronics II	2	
MECHANICAL TECHNOLOGY OPTION			8 Sem. Hrs.
168	Welding I	4	
171	Machine Shop	4	
206	Electrical Machinery	4	
225	Jigs, Fixtures and Machine Design	4	
245	Hydraulics	2	
345	Pneumatics	2	
370-470	Manufacturing Processes I & II	2-2	
POWER TECHNOLOGY OPTION (Mechanical)			8 Sem. Hrs.
148	Engine Theory I	4	
149	Power Transfer Theory I	4	
150	Carburetion & Ignition Theory I	4	
151	Hydraulic & Suspension Systems I	4	

Required hours for the Associate Certificate in technical education.

General education	29 Sem. Hrs.
Foundation Courses	33 Sem. Hrs.
Technical Option	8 Sem. Hrs.
Selected electives	4 Sem. Hrs.
Total	74 Sem. Hrs.

Required Courses and Suggested Schedule for the Two-Year Associate Degree in Printing Technology

FIRST YEAR

Eng. 104 Written English	3	Eng. 108 Written English	3
Phy. Sci. 201 General Phy. Sci.	3	Phy. Sci. 202 General Phy. Sci.	3
I.E. 180 Materials & Process	2	I.E. 121 Drafting	3
I.E. 191 Personnel Problems & Labor Relations	2	I.E. 138 Composition & Photo Mech. Preparation	3
I.E. 135 Printing Processes	3	I.E. 231 Image Transfer Mechanisms	3
Bus. Ed. 101 or 102 Typing	2		
	15		15

SECOND YEAR

Soc. 110 Intro. Sociology	3	Psych. 101 General Psychology	3
I.E. 231 Image Transfer Mech. or I. E. 236 High Contrast Photography	3	I.E. 333 Printing Techniques I	2
I.E. 235 Estimating or I.E. 331 Commercial Graphics	3	I.E. 335 Printing Plant Mgt.	3
I.E. 232 Continuous Tone Photo.	2	I.E. 433 Printing Techniques II	2
I.E. 237 Layout & Design	3	I.E. 434 Color Separation	3
Bus. 309 Industrial Organization & Management	3	I.E. 434 Printing Equipment Design & Maintenance	3
	17		16
		I.E. 492 Work Study Seminar	4
		I.E. 493 Work Experience Lab.	8

Courses of Instruction
Division of Industrial-Technical Education

103. **Basic Electricity** Three hours

D.C. circuits, the electron theory, resistance, power, magnetism, conductors, and insulators. A.C. circuits, including inductance, capacitance, reactance, impedance and phase relationship.
2 hours lecture — 4 hours laboratory

106. **Mathematics for the Technician I** Three hours

Fundamental operations with signed numbers, factoring, simultaneous equations. Graphs, exponents, trigonometric functions, right triangles, radian measure, and logarithms. Problems are chosen to illustrate basic concepts encountered in industrial technology. May not be counted toward a baccalaureate degree.

107. **Mathematics for the Technician II** Three hours

A continuation of I.E. 106. May not be counted toward a baccalaureate degree.

112. **Basic Electronics** **Four hours**

Transistor and vacuum tube technology, their theory of operation and application to electronic circuits. PR: 103 and a Math course.
2 hours lecture — 4 hours laboratory

121. Drafting Three hours

Drawing as the language of industry, a college level course for beginners, including lettering, sketching, orthographic projections, and sectional views with sheet metal design, and an introduction to machine drafting.
6 hours lecture — laboratory

135. Printing Processes Three hours

An introduction to the Graphic Arts. This course is the basic method of placing visual elements on receiver materials. An investigation is made of the relief, intaglio, planographic, and porus printing methods; experience is gained in each of these areas, also in the various phases of production of these methods.

138. Composition & Photo Mechanical Preparation Three hours

An elementary course in the make-up of copy. Emphasis is placed on composition and typography. There will be time given to image assembly and mechanicals, along with some basic camera work and elementary stripping.

148. Engine Theory I Four hours

A survey of engine design and characteristics. The operation and principle of internal combustion engines; and nomenclature, location, and function of stationary and moving parts.
2 hours lecture — 4 hours laboratory

149. Power Transfer Theory I Four hours

A study of the transfer of power to its terminal use through transmissions, torque converters, propellers, shafts, universals, differentials, and other driving mechanisms, as well as direct transfer by air or other fluids.
2 hours lecture — 4 hours laboratory

150. Carburetion and Ignition Theory Four hours

Methods and principles involved in the flow, metering, atomization, and delivery of fuel. Theory and practice of generation and distribution of electricity through the electrical system.
2 hours lecture — 4 hours laboratory

151. Hydraulic and Suspension Systems I Four hours

The theory and practice of suspension and hydraulic systems used in modern vehicles.
2 hours lecture — 4 hours laboratory

152. Elements of Transportation Four hours

A beginning course to introduce various types of power including both sources and generation with methods of transportation. Systems covered — mechanical, fluid, electrical, water, nuclear, and solar.

163. Sheet Metal I Two hours

A beginning course including instruction in laying out surface patterns, making useful articles involving typical stretch out, joints, wiring, soldering, and riveting. PR: 121.

164. Wood Technology Three hours

The theory, application, and treatment of woods and hand and machine wood working.
6 hours lecture — laboratory

168. **Welding I** Four hours

The reading of symbols and the production of ferrous weldments, in and out of position, using both gas and electric processes.
6 hours lecture — laboratory

169. **Metals Processing** Three hours

Processes and treatment of ferrous and non-ferrous metals at cold and elevated temperatures, including layout, cutting, forming, fastening, casting, and welding.
2 hours lecture — 4 hours laboratory

170. **Statics** Three hours

A study of force systems in static equilibrium. Includes concurrent, non-concurrent, coplanar and non-coplanar systems.

171. **Machine Shop** Four hours

Fundamentals of hand and machine tools, involving the lathe, drillpress, grinder, mill, saw and other metal working machines with problem solving in layout and machine design.
6 hours lecture — laboratory

180. **Materials and Processes of Industry** Two hours

A detailed analysis of the general nature and extent of basic American industries with an emphasis on materials and processes. Special attention is given to the technical, consumer, occupational, cultural, recreational, and social functions of the respective industries.

181. **Multiple Activities I** Two hours

A multiple materials laboratory designed to run concurrently with Materials of Industry. Students will develop a variety of processes reflecting the materials being studied. Each student will be expected to explore, experiment, and develop ideas which are expressive of the materials.

186. **Recreational Crafts** Two hours

Activities involving a variety of tools, materials, processes, and machines are employed to acquaint the student with the crafts. The student is encouraged to develop ideas which are expressive of himself. In addition, the organization and administration of recreational crafts programs is studied.

190. **Industrial Orientation** No Credit

An orientation course for the freshman student providing a general view of engineering technology and the place of the technician on the engineering team. Application of the slide-rule to technical problems. Technical report writing.

191. **Personnel Problems and Labor Relations** Two hours

A seminar dealing with the problems of labor and management. Wage and hour laws and industrial regulations.

192. **Personnel Administration** Two hours

A study of personnel management, industrial supervision and labor-union relations. Also included are job evaluation, wage systems, and merit rating.

203. Electrical Measurements Four hours

Alternating and direct current circuits, electronic tubes and semiconductors; assembly and tracing of electrical and electronic circuits. PR: 103.
6 hours lecture — laboratory

206. Electrical Machinery Four hours

Principles of the construction, operation, and use of direct and alternating current machines. PR: 103.
6 hours lecture — laboratory

221. Graphic Illustration Two hours

Industrial illustrating. This course involves a study of machine design, metals, and alloys. Small machine assembles will be drawn by the exploded view method showing all parts in relation to other parts. This type of drawing is used extensively by industry for assemblies purposes. PR: 121, 125.

224. Architectural Drafting I Four hours

Architectural nomenclature and terminology, structural members and materials used on construction of residential units. Symbols, conventions and sectional views are studied and drawn in compliance with the Federal Housing Authority Code.
6 hours lecture — laboratory

225. Jigs, Fixtures, & Machine Design Four hours

Characteristics of metal and machine parts emphasizing threads, cams, gears, and respective formulas. Principle of location, support and holding parts in jigs and fixtures.
6 hours lecture — laboratory

231. Image Transfer Mechanisms Three hours

An in depth study of image carriers such as relief plates, lithoplates — both surface and deep etch, gravure plates, and photo silkscreen. Transfer mechanisms are studied in depth. These include the rotary, cylinder and platen type. Certain speciality operations, such as die cutting, perforation, slitting and folding are also covered. PR: 135.

232. Continuous Tone Photography Two hours

A beginning course in the utilization of the hand-held camera. The emphasis is placed on the taking of pictures and the processing of black and white film. Topics covered include film and print processing, camera basics, camera formats, lens types, portrait photography, photo journalism, and photographic ethics.

235. Estimating Three hours

The means of pricing and purchasing printed work. Time is spent in investigating the financial structure of the printing concern. PR: 138, 231.

236. High Contrast Photography Three hours

An in-depth study of the factors that affect film. Experience is gained in the means of production of half-tones and special effects such as posterization, duping, choking, and duo tones. Time is spent with both press proofing and non-press proofing, and in the area of photo fabrication. PR: 138.

237. Layout and Design Three hours

The function of the art studio and the art director. Time is given to the psychological implications of the printed word and color. The student experiences the varous stages of make-up from ideas to camera-ready copy. Time is given to design and production of original work. PR: 138, 231, 232.

240. Engine Theory II Two hours

A study of the principles of diagnosing, locating, and correcting troubles encountered in engine operation and problems which occur in their testing and servicing. PR: 148.

241. Engine Laboratory II Two hours

242. Power Transfer Theory II Two hours

Advanced principles of mechanical power transfer through automatic transmissions and differential mechanisms. PR: 149.

243. Power Transfer Laboratory II Two hours

245. Hydraulics Two hours

A study of the concepts of fluid power transmission, control systems, characteristics of pumps and fluid pressurizing mechanisms. Hydraulic cylinders, cams, and fluid motors are explained fully. A survey of control valves, servos and associated devices is also included.

261. Gas Welding II Two hours

An advanced course in oxy acetylene welding involving fabrication for structural and industrial maintenance, piping, alloy and non-ferrous metals. PR: 168.

262. Arc Welding II Two hours

An advanced course in arc welding dealing primarily with welding metallurgy. A.P.I. and industrial transmissions, metallizing components. Tungsten Inert Gas (T.I.G.), and Gas Metal Arc (M.I.G.) applications. PR: 168.

263. Sheet Metal II Two hours

A continuation of I.E. 163. Advanced work will be offered in layout problems, joints, and other typical sheet metal situations commonly found in duct work. PR: 163.

268. Building Construction Four hours

Practices utilized in the erection of residential and industrial buildings with technical information involving problems from ground to roof.
6 hours lecture — laboratory

270. Strength of Materials Three hours

A study of the behavior of materials under various types of loads, includes stress-strain relationships, torsion, bending stress, riveted and welded joints. PR: 170.

271. Strength of Materials Laboratory One hour

Tension, compression, sheer, impact, and hardness testing of materials. To be taken concurrently with 270.

274. Graphic Solutions I Two hours

A study of the spatial relationships required for analysis of three dimensional problems including the techniques of descriptive geometry. Also included is an introduction to graphical arithmetic and algebra. PR: 170, 121.

281. Multiple Activities II Two hours

A study of industrial education and related fields. A lecture/laboratory experience utilizing media in the multiple activities laboratory in keeping with the basic industries and their functions as they relate to industrial study.

284. Plastics I Two hours

A study of the technical aspects of manufacturing processes related to thermoplastic materials. Specific attention is given to types, characteristics, design principles, molding, fabricating, and finishing techniques.

285. Industrial Design Two hours

Form and function; natural phenomena; simple industrial design solutions in human engineering, material, structure, and methods of manufacture. Model and mechanical drawings of products developed. PR: 121.

286. Crafts Two hours

The student is encouraged to explore, experiment, and create with a variety of materials and processes.

289. Ceramics Two hours

A laboratory experience studying the technical aspects of clay products including design principles, forming, decorating, and glazing techniques. The student will be encouraged to explore and develop ideas which are expressive of himself.

315. Industrial Electronics and Controls Two hours

Analysis of direct and alternating current motor starting equipment across the line and step starters, safety devices and remote control circuits. Basic vacuum tubes, power supplies, voltage amplifiers, phase shift circuits, and electronic motor control circuits. PR: 103.

316. Advanced Electronics I Two hours

A study of rectification with filtering, small signal vacuum tubes and transistor amplifiers. Measuring techniques, use of vacuum, transistor analyzers and curve tracers. PR: 112.

317. Advanced Electronics II Two hours

A continuation of I.E. 316 with further study of small signal amplifiers and various other vacuum and solid state devices. PR: 316.

320. Drafting Room Techniques I Two hours

Analysis of patent drafting, technical and legal consultation, preliminary sketch and drawings, indentures, expressions, and final drafts. PR: Six semester hours in drafting.

321. Structural Drafting Two hours

The design and checking of suitable steel sections to be used as beams, girders, lintels, columns and struts; the design of simple frames; and the use of bar joists, and open web long span joists; the design of timber beams, griders, columns, and wood floors. Different types of fasteners are discussed and vector diagrams are employed to solve for the loads of various members of a frame. In addition to static loads, wind and impact loads are dealt with. PR: 121, 224.

322. **Architectural Design** Two hours

A continuation of I.E. 224 in which design of houses, building materials, and specifications are studied in compliance with the Federal Housing Authority Code. Each student will develop and print a complete set of plans, specification sheets, and cost estimate for his own house. PR: 224.

323. **Electrical Drafting I** Two hours

An introduction of the various kinds of drawings and drafting techniques used in the design and construction of electrical equipment. Use of basic electrical principles, and typical applications will be utilized in drafting problems. PR: 121, 103.

331. **Commercial Graphics** Three hours

An advanced course in commercial art use and techniques. Time is spent in working with specialized processes and materials, such as air brush and camera distortion. Experience is gained in the production of specialized hand prepared copy and illustration rendering. PR: 237.

333. **Printing Techniques I** Two hours

An opportunity to investigate an area not included in the regular listing of courses in the communications field. It is possible to do a further in-depth study of some area previously covered. PR: 10 hrs. of Graphic Arts and Consent.

334. **Advanced Continuous Tone Photography** Three hours

A continuation of I.E. 232, covering such areas as advanced black and white work, large format camera work, artistic expression, and color photography. PR: 232.

335. **Printing Plant Management** Three hours

The problems of management as found in the printing industry. Topics include personnel hiring, production, inventory, quality control, shipping, and plant layout. Field trips. PR: 235.

345. **Pneumatics** Two hours

Principles and practices in the use of compressed air as a form of power. Valves and controls, power pistons, pressure relief devices, and other items necessary for the effective operation and control of pneumatic equipment.

360. **Metallurgy** Two hours

An introduction to the basic elements of metallurgy including structure of metals, properties of metals, smelting, refining, heat treating, and testing.

366. **Construction Theory & Lab. I** Two hours

Introductory course in construction materials and methods. Physical and mechanical properties of wood. Grades of wood construction. Types of construction and foundations. Cement, gypsum, and masonry materials.

370. Manufacturing Processes I Two hours

Experience on lathe, milling machines, shapers, planers, drill presses, surface and bench grinders, bench work, use and care of micrometers and measuring tools. Application of threading, turning, facing, taper turning on lathes. Use of the plain dividing head and other milling attachments. Drill grinding. Machine shop safety regulations. Forming flat surfaces on shapers and planers. Power sawing applications. PR: 171.

371. Thermodynamics Three hours

A basic study of thermodynamic properties of substances, work and heat relationships, the conservation of energy and various gas and vapor cycles. Extensive applications of these principles to practical problems involving heat exchangers, nozzles, and steam turbines. PR: Math 102 or I.E. 107, Physics 101.

372. Surveying Two hours

Introduction in the use of the engineer's tape, transit, and level, and the methods of recording field data in note form. Field problems associated with the theory will cover horizontal and vertical measurements, differential, profile and other leveling operations, and angular and bearing measurements with the transit. Also included is traverse layout and computing. PR: 107 or Math. 102.

373. Computing and Estimating Two hours

Problems of approximate and exact methods of arriving at lump sum and unit prices, and estimating total costs for materials and services; accepted methods of itemizing preliminary and final estimates.

374. Graphic Solutions II Two hours

A nonography, empirical equations, graphical calculus and the corresponding numerical techniques used in the solutions to applied problems. PR: 107 or Math 102 and I.E. 121.

375. Plumbing & Sanitation Two hours

Study of commercial and residential sanitary systems, sizing and layout of plumbing and sanitary systems, terminology and the interpretation and application of the governing codes.

376. Heating and Air Conditioning Two hours

Laboratory problems dealing with installation, maintenance and operation of forced warm air heating systems, hot water systems, steam and steam conversion systems, and radiant panel heating systems. System performance testing, air distribution system analysis, equipment operation and ratings. Application of automatic controls and instrumentation of heating systems. Laboratory experiments on design principles of piping systems, duct and duct fittings.

377. Time and Motion Study Two hours

Fundamentals of work simplification and motion economy using the techniques of motion and time study for the development of effective methods of production.

378. Plant Layout and Materials Handling Two hours

A study of the economical arrangement of stocks, machines, and layout of aisles for efficient handling of materials and production.

379. Industrial Economy Three hours

Techniques of engineering economy as related to cost, design, and selection of materials. PR: Math 102 or I.E. 107.

380. Man and Technology Two hours

An historical background of man and technology as a basis for developing a philosophy as to the place and function of industrial education in the comprehensive school curriculum.

381. Organization and Administration of Industrial Arts Two hours

Designed to aid the student as a future teacher of industrial arts. Problems of administration, shop arrangement, care of machinery, ordering of materials and supplies, and techniques of shop instruction will be studied. PR: 6 hours of Industrial Arts courses.

382. Furniture Construction and Design Two hours

A lecture-laboratory course in the developmental function of design, especially as it applies to the area of household furniture. Student problems include the designing of furniture and other household articles which are to be used as projects in the industrial arts laboratories. PR: 164.

384. Plastics II Two hours

Through research and development oriented activities the student will experiment with and design products utilizing both thermo-setting and thermoplastic materials. Fabrications, molding, casting, bonding, and heat forming techniques will be studied. PR: 284.

385. School Shop Maintenance I Two hours

Care, repair, and general maintenance of tools and equipment used in teaching industrial laboratory classes, and the construction of storage facilities, teaching devices, and visual aids.

386. Industrial Arts for the Elementary Teacher Two hours

The laboratory experiences are derived from the technology of the home, community, and world analogous to the lower, intermediate, and upper elementary grades. A variety of materials, tools, and processes are utilized as each student develops his own ideas. Emphasis is also placed upon the organization and administration of such a program.

391. Wood Finishing Two hours

A survey course in the materials and methods commonly used in the finishing of furniture and similar articles, and readily applicable to use in high school situations. The various types of dyes, stains, shellacs, varnishes, lacquers, and sealers will be used on sample panels. PR: 164.

392. Blueprint Reading Two-Three hours

A course in the reading of the prints and drawings most commonly found in industrial operations. Emphasis is placed on the development of speed and accuracy in the use of working drawings.

415. Electrical Maintenance Two hours

Materials, tools, and techniques involved in the maintenance of the electrical and electronic equipment. Switches, breakers, dimmers, timing devices, single and polyphase motors. PR: 103, 315.

416. **Advanced Electrical Theory I** Two hours

A study of special circuits and applications. High frequency circuits, electromagnetic fields and methods of solution of selected problems.

417. **Advanced Electrical Theory II** Two hours

A continuation of I.E. 416.

420. **Drafting Room Techniques II** Two hours

Advanced technical work for specialists in the drafting field. Recent developments, advanced technical and experimental work and technical reports in drafting. PR: 320.

421. **Drafting, Planning, and Scheduling** Two hours

The administrative practices and methods necessary for the effective use of the designing and drafting staffs in the architect's office. Legal requirements, customer relations, costs analysis. PR: 8 semester hours of architectural or mechanical drafting.

422. **Architectural Drafting III** Two hours

Preparation of plans for a commercial or public building. Sketching and instrument drawings, rendering, and reference to building codes. PR: 224.

423. **Electrical Drafting II** Two hours

Industrial and communication electronics symbols; elementary wiring diagrams for 8-C amplifier chassis; composite elementary diagram to wiring diagram of sequence controller; sketch of elementary to wiring diagram of a semi-automatic welding controller. PR: 323.

431. **Methods and Materials of Teaching Industrial Arts** Two hours

A course in which the particular problems and techniques of teaching Industrial Arts are dealt with. Emphasis is given to the special methods of handling demonstrations, use of special teaching aids and other related problems peculiar to the Industrial Arts. (Scheduled with the Block)

433. **Printing Techniques II** Two hours

A continuation of Printing Techniques I. PR: 333.

434. **Color Separation** Three hours

The theory of color and modern color separation methods. Fake color, transmission, and reflection copy methods, color correction methods, and additive and subtractive color theories are explored. Time is provided for the preparation of separations and for the press proofing and non-press proofing methods of same. PR: 231, 232, 236.

435. **Printing Equipment Design and Maintenance** Three hours

The reasons for the development of equipment for the graphic arts area. Time is spent on repair and maintenance of such equipment. The bulk of effort will be on image transfer mechanisms and optical devices and their attendant accessories. PR: 138, 231.

445. **Fluid Mechanics** Three hours

A study of basic concepts of fluid flow, including the Bernoulli Equation, orifices and nozzles. Pipe friction, heat losses and pumping systems are covered in detail. PR: 371.

466. Construction Theory and Lab II Two hours

Modern steel, wood, and masonry construction design methods and practices. Problems in beams, girders, and columns. Concrete analysis. A.S.T.M. testing. Fundamentals of utilities control.

470. Manufacturing Processes II Two hours

Set up and operation of machines and turret lathes. Practice in spiral and differential indexing. Cam milling. Tool and cutter grinders. Surface grinding, machine tool setup, precision level and test bars. Construction of cemented carbide single point tools. PR: 370.

473. Contracts and Specifications Two hours

A study of some of the regular and business aspects of the law pertinent to the engineering profession with special emphasis on various types of contracts used in the construction industry. Instruction also is afforded in the field of bidding procedures and in the availability of surety bonds and insurance. Specifications are analyzed from the standpoint of design and construction features.

474. Codes and Practices Two hours

A study of the general building codes recommended by the National Board of Fire Underwriters and a detailed study of the building codes of local communities. An analysis of building types and the economical use of materials selected for construction.

475. Dynamics Three hours

A study of the effect of forces on bodies in motion. Analysis of motion by mass acceleration methods. PR: 270.

477. Industrial Management Two hours

A survey of the operational, financial, marketing and accounting activities of industrial organization. A detailed survey of the duties of management as related to production, personnel, and human factors.

478. Production Controls Two hours

Current practices in production, planning, routing, scheduling and dispatching, study of production standards, labor efficiency and costs, quantity and quality control.

479. Power Plants Three hours

A study and analysis of stationary power plants and prime movers, steam generators, steam and gas turbins, and auxiliary equipment. PR: 371.

481. Multiple Activities III Two hours

Designed to run concurrently with I.E. 380 to permit students to experience activities demonstrative of various methods of laboratory teaching.

482. Cabinet Making I Two hours

A continuation of I.E. 382. The projects will be made in conformity with the drawings and specifications developed in the previous course. Advanced work in the use of machine tools, techniques, and processes will be stressed. A high level of craftsmanship will be maintained. PR: 164, 382.

485. School Shop Maintenance II Two hours

A continuation of I.E. 385 with emphasis on industrial application.

491. **Woodworking III** Two hours

A continuation of I.E. 164 with emphasis on the use of advanced techniques in the design and construction of home furniture. Particular attention is given to the use of veneers, inlays, overlays, and other advanced methods of enhancing the finished appearance of projects.

492. **Work Study Seminar** Four hours

Concepts of the construction and analysis of graphs, charts, and tables. Practical use of handbooks and industrial literature. Discussion of codes of ethics, employment opportunities, letters of application, interviews, and employment references. Engineering and progress reports on work experience.

493. **Work Experience Laboratory** Eight hours

On-the-job work experience in a cooperating industry. PR: I.E. 492.

JOURNALISM

(Division of Language and Literature)

The journalism program is designed to meet the needs of both teaching and non-teaching students. It has five broad objectives: to develop an awareness of the tremendous impact of the mass media on society; to build a knowledge of the history of communications, its importance, laws, ethics, and limitations of its freedom; to provide a knowledge of the tools and methods of the communications media; to evaluate data so as to separate facts and truth from chaff, misleading statements, and outright falsehood; and to give practical experience in writing and producing material for the media so that both journalism teaching majors and non-teaching minors are prepared for work in print or broadcast journalism.

A teaching field as well as a non-teaching minor in journalism is offered. Journalism students are urged to elect courses in languages, literature, social studies, broadcasting and printing to broaden their backgrounds for working in communications. Non-teaching minors as well as students with journalism as a teaching field must take active parts in publishing the college newspaper and yearbook.

Journalism courses are open to students in any discipline and are usually offered on an alternate semester basis. Enrollees should begin with either Journalism 240, the prerequisite for most courses numbered above 200, and/or Journalism 270 and 280. Because prospective teachers, both elementary and secondary, need to be aware of the impact of mass communications today, they should consider taking one or more of these introductory courses. Secondary teachers, whatever their major, may choose journalism as an additional teaching field. Those interested in advising school publications should complete the 24 hours required for teacher certification, grades 7-12. Those taking the Language Arts Comprehensive, grades 7-12, are urged to take more than the five hours of journalism courses required in their field. Because they deal with communications skills, English majors may find Journalism 240 and 330 helpful. Both LAC and English majors should consult the journalism faculty about additional courses needed as preparation for advising student newspaper, magazine and/or yearbook staffs.

Minor 16 Sem. Hrs.

Sixteen semester hours are required for a non-teaching minor in journalism as part of the Bachelor of Arts or Bachelor of Science degree programs. Journalism 240 should be followed as soon as possible by Journalism 343.

Journalism	240	Reporting I	3
	270	Communications in Society	2
	280	History of American Journalism	3
	312	Publications Problems	3
	334	News Photography	2
	343	Copy Editing and Makeup	3

Curricula for a Teaching Field in Journalism

Single Teaching Field, grades 7-12 24 Sem. Hrs.

Students in this field must complete an additional teaching field for grades 7-12. Journalism 240 should be followed as soon as possible by Journalism 343 so students will be ready for practical experience working on campus publications. Courses marked with an asterisk must be completed before admission to the Professional Block.

Journalism	*240	Reporting I	3
	270	Communications in Society	2
	280	History of American Journalism	3
	*312	Publications Problems	3
	320	Principles of Advertising	3
	334	News Photography	2
	*340	Journalism Practice	2
	*343	Copy Editing and Makeup	3
			21 hours
Electives from the following:			
	271	The Newspaper and Society	3
	330	Advanced Reporting	3
	341	Journalism Practice	2

Courses of Instruction

Journalism

240. Reporting I Three hours

The prerequisite for Journalism 312, 330, 340, 341, 343, and 431. Fundamentals of reporting: gathering, evaluating, and writing newspaper copy. Valuable as a test of writing ability and for making the student a more discerning media consumer. Open to second semester freshmen and above. Offered each semester. Three-hour lab arranged.

270. Communications In Society Two hours

A survey of mass media: advertising, public relations, journalism education, print and broadcast journalism, as an introduction to their place in society and career possibilities.

271. The Newspaper and Society Three hours

Study of the development of the newspaper's growth from an organ of a political party to the social instrument of today; present practices of the press; the evolving code of ethics and influence of the newspaper; its competitors in broadcast journalism.

280. History of American Journalism Three hours

Study of the American press, its influence on the nation, development of today's communications media from the seventeenth century, examination of the outstanding names in journalism, freedom of the press and its present implications.

312. Publications Problems Three hours

Prerequisite: Journalism 240. A practical course for teachers who may supervise a student newspaper, yearbook, magazine or handbook or to anyone charged with producing a publication. Problems of staff organization, training, finance, format, ethics, etc. are covered. Three-hour lab arranged.

320. Principles of Advertising Three hours

Surveying course of social, psychological, and some technical aspects of advertising. For business and journalism students. Taught by the commerce faculty. Journalism majors and minors should register for Journalism 320, not Bus. 320.

330. Advanced Reporting Three hours

Prerequisite: A grade of C or higher in Journalism 240. Advanced study of journalistic writing techniques with emphasis on feature writing and depth reporting, and feature assignments for **The Columns** and the local daily newspapers. Six-hour lab per week, with the work being done at **The Fairmont Times** or **The West Virginian.**

334. News Photography Two hours

Basic camera and developing techniques are studied during one lecture hour, one demonstration hour, and two-hour lab per week. No laboratory fee is charged, but each student is required to purchase a photography kit containing film and photography equipment. Chemicals are provided by the department. Limited enrollment. Taught by the Industrial Arts faculty. Journalism students should register for Journalism 334, not IE 334. Two-hour lab.

340. Journalism Practice Two hours

Prerequisite: consent of the instructor. An arranged course providing practical experience on the college newspaper, yearbook, sports information staff, local daily newspapers, radio stations, plus guided reading in the student's field of major journalistic interest. Students should schedule a minimum of three lab hours per week with the secretary in the Public Relations office the first day classes are in session each semester.

341. Journalism Practice Two hours

Continuation of Journalism 340.

343. Copy Editing and Makeup Three hours

Prerequisite: Grade of C or higher in Journalism 240. Combination of lecture and laboratory demonstrations in editing and makeup practices. Editing of copy, headline writing, study of type faces and page make-up for all types of newspapers, yearbooks, and magazines. Actual experience on campus publications during three-hour arranged lab.

431. Methods and Materials in Teaching Journalism **Two hours**

Part of the Professional Block. Study and practice in the techniques of teaching journalism and advising school publications.

LIBRARY SCIENCE

The chief function of the libary science curriculum is to prepare students for careers in elementary or secondary school librarianship. To this purpose all of the courses emphasize school library applications. The program also provides an introduction to library science for students interested in going on to graduate study in the library field. Moreover, other students, regardless of subject interests or career goals, can profitably elect courses from the library science offerings.

School Librarian, Comprehensive K-12 21 Sem. Hrs.

Lib. Sci.	*200	Reference and Bibliography	3
	*210	Library Materials	3
	*302	Cataloging and Classification	3
	*304	Organization and Administration	3
	400	Library Practice	3
English	*207	Children's Literature	3
Education	*424	Audio-visual Aids	3

A student in secondary education selecting School Librarian as a specialization shall complete another specialization for grades 7-12 or grades 7-9. Library Science 400 must be taken as a part of the Professional Block.

Courses of Instruction

Library Science

200. **Reference and Bibliography** Three hours

The study of basic reference sources with emphasis on the reference needs of school libraries. Evaluation, selection, use, literature searching and bibliography compilation are stressed.

210. **Library Materials** Three hours

A study of the principles and criteria used in evaluating and selecting books and non-book materials for school libraries and the practical use of standard selection aids employed in the selection process.

302. **Cataloging and Classification** Three hours

An introduction to the principles and techniques of descriptive cataloging, classification, subject analysis of book and non-book materials and the organization and maintenance of the card catalog. Emphasis is placed upon practical application in school librarianship.

304. **Organization and Administration** Three hours

The objectives and procedures involved in the functioning of the school library-media center in relation to the total education program. Emphasis is on planning the physical facility, equipment, standards, staff, budgeting, ordering, instruction, services, student assistants, displays and public relations.

400. **Library Practice** Three hours

Practicum in the college library and a school library concurrently with Education 420 or Education 450. Three hours per week during the first 9 weeks; two periods in an approved school library during assigned student teaching.

PR: 200, 210, 302, 304.

MATHEMATICS

Students who major in Mathematics may satisfy the requirements for at least one of five options: (1) The Bachelor of Arts in Mathematics as preparation for graduate study in Mathematics. (2) The Bachelor of Science in Mathematics as preparation for work in computing or for graduate study in computer science. (3, 4, 5) The Bachelor of Arts in Education (with a single teaching field, a comprehensive teaching field, or a subject specialization) as preparation for teaching Mathematics.

Math 116, 315, 316, and 361 are included in the requirements of each of the first four options and should be completed early in the programs.

It is expected that students will present a minimum of four units of high school mathematics including two units of algebra, one unit of integrated geometry (or equivalent), and a fourth unit requiring algebra and geometry as prerequisites. Students who present less that this expected preparation may be required to complete appropriate lower level courses in addition to the stated requirements.

Students should consult with their advisor concerning credit for prerequisites and special examination for course credit. (See advanced standing credit.)

MAJOR (A.B. Degree)			30 Sem. Hrs.
Required Courses			21
116	Calculus I	4	
315	Calculus II	4	
316	Calculus III	4	
361	Abstract Algebra	3	
391	Introduction to Analysis	3	
401	Differential Equations	3	
Electives in Mathematics (To be selected by student and advisor)			9
Language: French or German			12
MAJOR (B.S. Degree)			30 Sem. Hrs.
Required Courses			21
116	Calculus I	4	
315	Calculus II	4	
316	Calculus III	4	
335	Probability and Statistics	3	
361	Abstract Algebra	3	
362	Linear Algebra	3	
Electives in Mathematics (To be selected by student and advisor)			6
Related Courses			
Business 430	FORTRAN	3	3
MINOR			21 Sem. Hrs.
Required 116, 315, 316			12
Electives to be selected with advisor's approval. Three courses from the following with at least one from each group.			9

Group I

335	Probability and Statistics I	3
336	Probability and Statistics II	3
342	Numerical Analysis	3
362	Linear Algebra	3
401	Differential Equations	3

Group II

200	Logic	3
306	Introduction to Theory of Numbers	3
361	Abstract Algebra	3
391	Introduction to Analysis	3
411	Advanced Calculus	3

Curricula for Teaching Fields and Specializations in Mathematics

TEACHING FIELD Comprehensive Grades 7-12			32 Sem. Hrs.
*116	Calculus I	4	
*315	Calculus II	4	
316	Calculus III	4	
*361	Abstract Algebra	3	
372	Modern Geometry	3	
431	Special Methods	2	
Electives (must include at least six semester hours of the following: 200, 335, 342, 391)		12	

SINGLE TEACHING FIELD Grades 7-12			18 Sem. Hrs.
*116	Calculus I	4	
*315	Calculus II	4	
316	Calculus III	4	
*361	Abstract Algebra	3	
Electives from the following courses			3
200	Mathematical Logic	3	
335	Probability and Statistics	3	
342	Numerical Analysis	3	
362	Linear Algebra	3	
372	Modern Geometry	3	
373	Projective Geometry	3	
375	Topology	3	
391	Introduction to Analysis	3	
393	Intro. to Found. of Mathematics	3	
400	Seminar	1-3	
401	Differential Equations	3	
411	Advanced Calculus	3	
413	Introduction to Complex Variables	3	

MATHEMATICS—Subject Specialization Grades 1-9 or 7-9

Required Courses			13 Sem. Hrs.
*115	Intermediate Mathematics II	4	
*210	Mathematics for Elementary Teachers	3	
361	Abstract Algebra	3	
372	Modern Geometry	3	

* Courses marked with an asterisk must be completed prior to admission to the Professional Block.

Courses of Instruction
Mathematics

101. Applied Technical Mathematics I Three hours

An introduction to fundamental mechanics and techniques for performing operations with Algebraic expressions and subsequently solving linear equations, systems of linear equations, quadratic equations, radical equations and polynominal equations. This course cannot satisfy general studies requirements.

102. Applied Technical Mathematics II Three hours

A continuation of Math 101, this course is designed to develop methods of solving right triangles and oblique triangles using trigonometry. Other topics discussed will be complex numbers, progressions and the binomial theorem. This course cannot satisfy general studies requirements. PR: Math 101.

110. Mathematics for Elementary Teachers I Three hours

An introductory course in mathematical ideas. This course includes basic concepts of set theory, properties of operations and a logical development of the real number system and its subsystems. Understanding of the basic operations is stressed. This course cannot be used as math credit toward certification for teaching mathematics. Credit for this course does not count for general requirement in science and mathematics.

111. Intermediate Algebra Three hours

A course for students deficient in high school algebra. This course cannot be used as mathematics credit toward certification for teaching mathematics. Credit may be earned for either Math 111 or 101 but not both courses. PR: One unit of high school algebra.

112. Intermediate Mathematics I Three hours

An introductory course of integrated algebra, trigonometry, and related topics, for students who have not had an equivalent course in high school. This course cannot be used as mathematics credit toward certification for teaching mathematics.

113. Finite Math Three hours

An introduction to finite math with applications of quantitative techniques in the social and management sciences. Topics covered are logic, probability, linear relations, and elementary linear programming.

114. Finite Math Three hours

Topics include non-linear relations, applied matrix algebra, sequences, and introductory applied calculus. PR: Math 113.

115. Intermediate Mathematics II Four hours

An integrated course of the material traditional offered in College Algebra and Trigonometry, and related topics. For students who have not completed an equivalent course in high school. PR: 112 or equivalent.

116. Calculus I Four hours

The simpler techniques of differentiation and integration for the elementary functions. Step functions and their integral, the exact area under a monotonic curve, the definite integral. Limit of a function, slope of a curve, tangents, instantaneous rates. Continuity of addition, multiplication, and inverse; algebra of limits, existence of limits, continuous functions. Derived functions, D(u+v), Dcu, Duv, Du^n, differentiation of polynomials. Interpretation and applications of derivatives. Mean value theorem. Taylor's theorem, higher order derivatives, cut-off Taylor's series as approximations, convexity, constant acceleration, maxima and minima. Differentiation of rational functions, maxima and minima with side conditions. The antiderivative, differential equation $DF(x) = f(x)$, antiderivative formulas, fundamental theorem of calculus. Integration by parts, algebraic properties of integrals, applications, area, mean value of a function, falling bodies, work, volumes, moments. Antiderivatives of negative powers, application, Theory of logarithms and general powers. Exponential functions. Tangent and normal, orthogonal curves, angle between two curves, circle and parabola. Arc length, polar coordinates. Derivatives and integrals of trigonometric functions. Periodic motion, simple harmonic motion. Inverse trigonometric functions. Numerical methods: trapezoidal rule, Simpson's rule, Newton's method. PR: 115 or equivalent.

200. **Mathematical Logic** Three hours

Sentential and general theory of inference, theory of proof and definition, elementary intuitive set theory. PR: Math 116 or consent.

201. **Mathematical Logic** Three hours

A continuation of Math 200. PR: Math 200.

206. **Introduction to the Theory of Numbers** Three hours

Prime Numbers; the unique factorization theorem; congruences; Diophantine equations; primitive roots; the quadratic reciprocity theorem. PR: Math 116 or consent.

210. **Mathematics for Elementary Teachers II** Three hours

This course is intended to follow Math 110. Topics covered in the course include an introduction to logic, numeration systems including bases other than ten, properties of real numbers finite mathematics, solution of equations and inequalities. Credit for the course does not count for general requirement in science and mathematics. PR: Math 110.

315. **Calculus II** Four hours

A continuation of Math 116. PR: 116.

316. **Calculus III** Four hours

A continuation of Math 315. PR: 315.

335. **Probability and Statistics** Three hours

Sample spaces, events as subsets, probability axioms, finite sample spaces and equiprobable measure as special case, binomial coefficients and counting techniques applied to probability problems, conditional probability, independent events, Bayes' formula. Random variable, probability functions, density and distribution functions, special distributions, independent random variables. Poisson and normal approximation to the bionomial, some statistical applications. Estimation and sampling, point and interval estimates, hypothesis-testing, power of a test, regression. PR: Math 315 or consent.

336. **Probability and Statistics** Three hours

Random variables and distributions, sequences of random variables, Markov chains, stochastic process. PR: Math 335.

342. **Numerical Analysis** Three hours

Solution of equations. Functional iteration of equations, analysis of special methods such as the methods of false position and of Newton; iteration for systems of equations. Reduction to first order systems. Gaussian elimination and some iterative methods for inversion. PR: Math 315 and Bus 430 or consent.

361. **Abstract Algebra** Three hours

Sets, relations, functions, operation, etc. Algebraic systems: integers, rationals, matrices, etc. Isomorphism and examples. Equivalence classes. Groups. Subgroups, cyclic groups, basic theorems Lagrange's theorem. Homomorphism, normal subgroup, quotient group. The isomorphism theorems. Rings, integers, matrices, polynomials, integral domains, fields, quotient field. Homomorphism, ideals, residue class rings. Unique factorization domains. Euclidean domains, integers, polynomials over a field. Division algorithm, highest common factor, unique factorization in Euclidean domain. PR: Math 316 or consent.

362. **Linear Algebra** Three hours

Vector spaces abstractly defined. Linear dependence and independence. Bases and subspaces. Dimension of linear space. Linear mappings, kernel and image of a map. Rank of a map. Linear maps as a vector space. Composition of mappings and multiplication of matrices. Relation between linear mappings and systems of linear equations. Row reduced echelon matris, invertible matrices, calculation of inverse. Linear inequalities and half spaces. PR: Math 316 or consent.

372. **Modern Geometry** Three hours

The idea of convexity; separation of planes by lines, and of space by planes. The treatment of betweenness. Distance functions and angular measurement functions, and the postulates governing them. Metric difinitions of congruence-relations, for segments, angles, and triangles. The parallel postulate. PR: Math 316 or consent.

373. **Projective Geometry** Three hours

Extended Euclidean plane, elements of perspective, linear transformations in II_2, the axiomatic foundation, the complete four-point and complete four-line, conics, introduction of coordinates. PR: Consent.

375. **Topology** Three hours

A study of sets, relations, functions, cardinal numbers and orderings. Topological spaces, including continuity, convergence, separation, compactness and connectedness. PR: Math 315.

391. **Introduction to Analysis** Three hours

Real numbers, topology of the reals, infinite series, continuous functions, sequences and series of functions, differentiation, integration, power series. PR: Math 316.

393. **Introduction to Foundations of Mathematics** Three hours

Continuation of 391. PR: Consent.

400. **Seminar** One-Three hours

PR: Consent.

401. **Differential Equations** Three hours

First-order and simple higher-order ordinary differential equations and their applications, linear differential equations with constant coefficients and their application, simultaneous differential equations and their applications, the numerical solution of differential equations, solution of differential equations by use of series. PR: Math 316.

411. **Advanced Calculus** Three Hours

Sets, relations and functions, composite and inverse functions, countable sets, ordered fields, sequences, operations with sequences nested intervals, cauchy sequences, open and closed sets, limits and continuity, differentiation, integration. PR: Math 316 and consent.

413. **Introduction to Complex Variables** Three hours

The algebra and geometry of complex numbers. Definitions and properties of elementary functions, e, sin x, log z. Anatytic functions. Limits, derivatives, Cauchy-Riemann equations. Integration. Integrals, functions defined by integrals. Maximum modulus, Liouville's theorem, fundamental theorem of algebra. Series. Taylor and Laurent series. Uniform convergence, term-by-term differentiation, uniform convergence in general. Domain of convergence and classification of singularities. The residue theorem. PR: Math 315.

431. **Methods and Materials in Teaching Mathematics** Two hours

MUSIC

(Division of Fine Arts)

The Music Department offers a major and minor in the Bachelor of Arts Degree in Music and a Comprehensive Music Major and a music minor and elementary speculation under the Bachelor of Arts in Education Degree. The degree programs are organized to provide a thorough background for a professional music or music teaching career. Major applied areas are offered in vocal, instrumental (strings, woodwinds, brass and percussion), piano and organ.

The department provides excellent musical instruction for its students through a highly qualified professional staff of performing and teaching professors, a constantly improving and varied curriculum, and a series of sequential musical experiences and studies in all music degree programs. The department believes in exposing music students to many new and innovative musical ideas as well as emphasizing the musical heritage of the past. Departmental organizations such as band, orchestra, choir, ensembles, stage band and soloists participate regularly in productions, concerts, and activities of the college and community and tour West Virginia and other states regularly each year.

Opportunities are provided for music students to attend numerous recitals, concerts, productions and other musical events on and off campus. Several professional and fraternal organizations are sponsored by the department including a student chapter of MENC and Sigma Alpha Iota professional sorority for women music students.

In 1966, the music department moved into the new Fine Arts Building. It is well equipped with musical instruments and materials and its facilities include a piano classroom, theory room, music education room, listening library, instrumental and choral rehearsal rooms, 18 practice rooms, nine studios and Wallman Concert Hall.

Specific Requirements in All Major Fields
Music
Bachelor of Arts Degree

MAJOR				57 Sem. Hrs.
Required Courses:				
Theory			20	
109-110	Theory, Comprehensive	8		
209-210	Theory, Comprehensive	8		
309	Orchestration	2		
Electives from: 310-311-312		2		
*Applied Music			19	
Major (must attain Level 8 for graduation)		14		
Piano (Piano Majors — Applied Minor)		4		
440	Senior Recital	1		
History & Appreciation			9	
206	Music Appreciation for Majors	3		
313-314	History	6		
Conducting			5	
245	Fundamentals of Conducting	2		
429 or 430	Instrumental or Choral Methods and Advanced Conducting	3		
**Participation			4	
MINOR				27 Sem. Hrs.
Required Courses:				
Theory			8	
109-110	Theory, Comprehensive	8		
Appreciation			3	
206	Music Appreciation for Majors	3		
Conducting			5	
245	Fundamentals of Conducting	2		
429 or 430	Instrumental or Choral Methods and Advanced Conducting	3		
*Applied Music			8	
107	Piano (Min. 3) (Piano Proficiency)			
141	Voice (Min. 1)			
211-217	Orchestral Instrument Classes (Min. 3)			
**Participation				3

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* See FSC Bulletin Music Supplement for requirements for recitals, concert attendance, applied levels, piano proficiency, and freshman level assignments, etc.

** A music major or minor in addition to the four (4) hours participation credit, must be enrolled in a major performance group (band, chorus, orchestra) during each semester of college attendance.

Curricula for Teaching Fields and Specializations
Music

Courses marked with an asterisk must be completed before a student is admitted to the Professional Block. See FSC Bulletin Music Supplement for requirements for recitals, concert attendance, applied levels, piano proficiency, and freshman level assignments, etc.

Music					
Curriculum for Comprehensive Teaching Field Grades 1-12					
Required Courses					59 Sem. Hrs.
Music Theory:				18	
*109, 110	First Year Theory, Comprehensive		8		
*209, 210	Second Year Theory, Comprehensive		8		
309	Orchestration		2		
Music History and Appreciation			9		
*206	Music Appreciation for Majors		3		
*313, 314	History		6		
Conducting:				2	
*245	Fundamentals of Conducting		2		
	Note: An additional 2 hours of advanced instrumental and choral conducting is included in Music 429, Instrumental Methods and Music 430, Choral Methods.				
Participation:				4	
*****Band, Chorus, or orchestra			4		
Applied Music: (Vocal, Instrumental and Piano or Organ major) Note: See FSC Bulletin Music Supplement.					18
Applied Major:				7	
(Must attain level 7 for graduation)					
*141	I-VII Voice or				
*177-203	I-VII Instrumental (Brass, Woodwind, Percussion, or Strings) or				
*107	I-VII Piano or				
*103	I-VII Organ				
Additional Requirements:				6	
For the Vocal Major:					
Elective: (On advice of Instructor)			6		
Instrumental Class II, or					
139	Voice Class	1			
***Piano:					
*105	I-II Piano Class	2			
107	I-II-III Piano (Piano Proficiency)	3			
****320	Techniques of Keyboard Accompanying				
For the Instrumental Major:			6		
Instrumental Class II (On advice of Instructor)		1			
Brass Majors must take 215 I & II					
Woodwind Majors must take 213 I & II					
Percussion Majors are excused from 217, but must take 213, 215 I & II					
***Piano:					
*105	I-II Piano Class	2			
107	I-II Piano (Piano Proficiency)	2			
Voice:					
139	Voice Class	1			
For the Organ and Piano Major:			6		

Elective: (On advice of Instructor)				
Instrumental Class II or				
103 Organ (for Piano Major), or				
320 Techniques of Piano Accompanying	1			
Instrumental or Vocal Applied Major:	4			
141, 177-203, I-VI				
Voice:	1			
139 Voice Class				
Instrumental Classes:			4	
*211 String Class (Recommended that all majors take 211 I & II)		1		
*213 Brass Class		1		
*215 Woodwind Class		1		
*217 Percussion Class		1		
**170 Lab. Band-Orchestra		NC		
Senior Recital:			1	
440 Senior Recital				
(See FSC Bulletin Music Supplement)				
Music Education:				8
*429 Instrumental Methods and Conducting		3		
*430 Choral Methods and Conducting		3		
431 Methods and Materials in Teaching Music		2		

Music Subject Specialization, Vocal, Grades 1-9, 7-9

Required Courses			31 Sem. Hrs.
General Education Requirements		9	
*206 Music Appreciation	3		
*231 Elementary Music Methods I	3		
*232 Elementary Music Methods II	3		
Theory:		8	
*109 Theory, Comprehensive	4		
110 Theory, Comprehensive	4		
Applied Music:		8	
*139 Voice Class	1		
141 I-III Voice	3		
*105 I, II Piano Class	2		
***107 I, II Piano	2		
Participation:		4	
*****Chorus and small ensembles			
Conducting:		2	
*245 Fundamentals of Conducting	2		

APPLIED MUSIC LEVELS: All music majors and minors will be assigned an entering applied level by their applied instructor during the first month of their first applied course. All music majors must complete level 7 for graduation. See FSC Bulletin Supplement "Applied Music Requirements."

* Courses marked with an asterisk must be completed prior to admission to the Professional Block.

** Laboratory Band-Orchestra is held once each week for non-credit (NC). All persons taking Music 211, 212, 213, 215, and 217 are required to participate.

*** Piano is required of all music students. At the completion of the required number of hours (4), each student must pass the piano proficiency examination. If failed, the student must continue to take piano until the piano proficiency examination is passed. This requirement is necessary for a degree in music. A student who so desires, may take the piano examination after completing one or more hours of piano. If successful, he is excused from the remaining hours which must be added to music electives in an applied area.

**** Music 320, Keyboard Accompanying, may be substituted for one hour of applied piano.

***** A music major or minor in addition to the four (4) hours participation credit, must be enrolled in a major performance group (band, choir, orchestra) during each semester of college attendance. Participation enrollment should be in line with the applied major.

Courses of Instruction
Music

* Note: All applied courses, Music 103, 107, 141 and 177-203, I-VIII:

a. Open to students with sufficient musical background to benefit from individual instruction in techniques of playing band and orchestral instruments. Acceptance of the student will be the prerogative of the instructor. See FSC Bulletin Music Supplement for applied requirements, recitals and applied levels.

b. One hour credit applied music course requires one-half hour lesson per week plus daily practice of one hour.

c. Two hour credit applied music courses require two one-half hour lessons per week or one hour lesson per week plus two hours daily practice.

d. Students desiring to take 2 hours for applied lessons must have the permission of their instructor. This permission is usually given only to upperclassmen or BA majors.

*103. **Organ I-VIII** One-Two hours

The program of study will be fitted to the individual needs of the student. Acceptance of the student will be the prerogative of the instructor.

105. **Piano Class I-II** One hour

This course is designed for all students interested in beginning piano. This will be conducted as a class with each member being offered opportunity for participation.

*107. **Piano I-VIII** One-Two hours

See description under Music 103.

109E. **Beginning Theory (on demand)** Two hours

This course is designed for beginning music students who need additional background in theory.

109. **Theory, Comprehensive** Four hours

This course is organized in five interacting streams of study to develop the skills necessary for the perception and understanding of music. These streams of study are comprised of: Formal and harmonic analysis, composition, Ear Training, Keyboard Harmony and Singing. This study surveys the compositional techniques of the 18th and 19th centuries. A weekly lab of 5 minutes is required.

110. **Theory, Comprehensive** Four hours

A study designed to reinforce and expand concepts acquired in Theory 109, with emphasis in compositional study involving modulation and musical perception with and without score. Five minute lab. PR: 109.

139. **Voice Class** One hour

Course consists of a study of the fundamentals of voice production: breathing, resonance, articulation and style.

*141. **Voice I-VIII** One-Two hours

Open to students who have sufficient musical background and vocal quality to merit individual instruction. The principles of proper vocal production are stressed with later emphasis upon solo repertoire in English, Italian, German and French.

167. **"Collegiates" I-VIII** One hour

A select touring choir. PR: Audition.

169. **Band I-VIII** One hour

Open to all students who can play an instrument needed to keep a balanced organization. The program of procedure is designed to present study of band literature and administration through participation. Includes the marching band, concert band and wind symphony. PR: Audition.

170. **Laboratory, Band and Orchestra** No Credit

Required of students who can play an instrument needed to keep a balanced organization. This course provides review experiences in conducting and playing instruments at the beginning and intermediate levels.

172. **College-Community Symphony Orchestra, I-VIII** One hour

Open to all students and members of the community who can play an orchestral instrument needed to keep a balanced organization. The course is designed to present the study and performance of orchestral literature appropriate to the playing ability of its members. Audition or at the discretion of the director.

173. **College Chorus I-VIII** One hour

Open to all students who can sing a part. This course is designed to present a study of choral literature, and administration through participation. PR: tryout.

Individual Instruction in Band and Orchestral Instruments.

*177. **Percussion I-VIII** One-Two hours

179. **Saxophone I-VIII** One-Two hours

*181. **Flute I-VIII** One-Two hours

*183. **Clarinet I-VIII** One-Two hours

*185. **Oboe I-VIII** One-Two hours

*187. **Bassoon I-VIII** One-Two hours

*189. **Trumpet or Cornet I-VIII** One-Two hours

*191. **Baritone Horn I-VIII** One-Two hours

*193. **French Horn I-VIII** One-Two hours

*195. **Trombone I-VIII** One-Two hours

*197. **Tuba I-VIII** One-Two hours

*200. **Violin I-VIII** One-Two hours

*201. **Viola I-VIII** One-Two hours

*202. **Cello I-VIII** One-Two hours

*203. **Bass Viol I-VIII** One-Two hours

205. **Music Appreciation** Two hours

A general music course in appreciation. Music of composers of the classical, romantic, and modern periods are discussed, and compositions of these composers are heard through the medium of recordings.

206. **Music Appreciation for Majors** Three hours

The history and literature of music, with emphasis placed on listening to recordings of great music and the study of musical style and form of the leading composers of the Renaissance, Baroque, Vienna Classic, Romantic, and Modern periods, for the purpose of developing greater depth in the discrimination and appreciation of music. Recommended for students enrolled in a music teaching field, subject specialization, or major. This may be substituted for Music 205. Not open to students with credit for Music 205.

209. **Theory, Comprehensive** Four hours

Continuation of Music 110 covering theoretical principles of the Baroque and Classical Periods. Emphasis on contrapuntal forms and compositions of large formal structures. Five minute lab each week. PR: 110.

210. **Theory, Comprehensive** Four hours

Continuation of Music 209 developing the skills necessary for the perception and understanding of music. Features theoretical principles of the Romantic and twentieth centuries. Five minute lab each week. PR: 209.

211. **String Class I, II** One hour

This course is open to all students with sufficient background in music. A working knowledge of string instruments is attained through class instruction.

213. **Brass Class I, II** One hour

This course is open to all students with sufficient background in music. A working knowledge of brass instruments is attained through class instruction.

215. **Woodwind Class I, II** One hour

This course is open to all students with sufficient background in music. A working knowledge of woodwind instruments is attained through class instruction.

217. **Percussion Class I, II** One hour

Open to all students with sufficient background in music. A working knowledge of percussion instruments is attained through class instruction.

230. **Kindergarten-Primary Music** Two hours

A course designed to develop understanding of musical skills and activities as related to the teaching of music with particular attention to needs of children from 4 to 7 years old.

231. **Elementary Music I** Three hours

This course gives the student a background in music theory, terminology of music, rhythm, music reading, chord construction and use of the keyboard and classroom instruments needed by the classroom teacher. Methods activities and approaches of Orff, Kodaly, Manhattan Project and others are emphasized for K-3. Two lecture hours and one laboratory hour per week. Required of all elementary teachers.

232. **Elementary Music II** Three hours

This course is a continuation of 231 and includes methods and procedures for carrying out the music program in the elementary grades one through eight. PR: Music 231.

245. **Fundamentals of Conducting** Two hours

A course designed to teach and develop the basic skills of conducting. PR: 109.

247. **Stage Band I-VIII** One hour

Open to advanced instrumental students. PR: Audition.

249. **Advanced Woodwind Instrumental Ensemble I-VIII** One hour

Open to advanced woodwind students. Includes various woodwind ensembles. PR: Audition.

275. **Advanced Brass Instrumental Ensemble I-VIII** One hour

Open to advanced instumental students. Designed to give students an opportunity to participate in small ensembles. Groups meet on a regular weekly rehearsal schedule under faculty direction. PR: audition.

277. **Advanced Vocal Ensemble I-VIII (Madrigal Singers)** One hour

Open to advanced vocal students. Designed to give students experience in small ensemble participation. Groups meet on a regular rehearsal schedule under faculty direction. PR: audition.

309. **Orchestration** Two hours

Basic instrumentation and arranging for band and orchestra. PR: 210.

310. **Counterpoint (on demand)** Two hours

A study of the style and technique involved in the writing of 16th century polyphonic music. PR: 210.

311. **Form and Analysis (on demand)** Two Hours

A study of form and the analysis of music as found in the literature from the 17th to the 20th century. PR: 209.

312. **Composition (on demand)** Two hours

This course is designed to teach, through the study of various types of music, a basic and accepted approach to creative composition. PR: 209.

313. **History** Three hours

This course traces music from the early Greek through the Baroque periods, with emphasis on recognition of styles and composers. PR: 209.

314. **History** Three hours

A continuation of Music 313 covering the Classical, and Modern Romantic periods. PR: Music 313.

320. **Techniques of Keyboard Accompanying** One hour

A course designed to acquaint advanced students of piano and organ with the techniques involved in playing accompaniments for performing groups and soloists. Regularly scheduled laboratory experiences in playing accompaniments for vocal and instrumental soloists and ensembles will be provided. This course may be substituted for applied piano. PR: Permission of instructor. Given on demand.

429. **Instrumental Methods and Conducting** Three hours

This course includes advanced and practical application of instrumental conducting techniques, methods, administration and materials used in teaching instrumental music in the secondary schools. PR: 209 and 245.

430. **Choral Methods and Conducting** Three hours

This course includes advanced and practical application of choral conducting techniques, methods, administration, and materials used in teaching choral music in the secondary schools. PR: 209 and 245.

431. **Methods and Materials in Teaching Music, K-12** Two hours

This course deals with techniques, methods and materials used in teaching and administering elementary and secondary general music classes. Methods, activities and approaches of Orff, Kodaly, Manhattan Project and others are included. To be taken during the Professional Block.

432. **Choral Workshop (on demand)** Two hours

This workshop course to be offered to upgrade choral instructor's teaching techniques and administration. The course will include experiences in conducting choral groups, interpretation, and participating in choral rehearsals and performances. The study of problems related to choral teaching and administration will be included.

433. **Instrumental Workshop (on demand)** Two hours

This workshop course to be offered to upgrade instrumental teaching techniques and administration of instructors. The course will include experiences in conducting instrumental groups, interpretation, participating in instrumental rehearsals and performances, and the study of problems related to instrumental teaching and administration.

434. **Composition Workshop (on demand)** Two hours

This course is designed to study the composition of choral and instrumental works. Experiences of hearing works performed by live groups will be provided.

440. **Senior Recital (See FSC Music Bulletin Supplement)** One hour

All music majors are required to present a senior recital or its equivalent before the faculty jury or public.

PHILOSOPHY

(Division of Social Science)

It is often said that the questions of the philosopher are the "ultimate" questions, yet there are no questions more intimately and immediately important to a human being. This is so because philosophy is, above all, an inquiry into the nature of thought: to philosophize is to think systematically about thinking. Obviously we all think, and if we did it well, there would be no need for philosophy. Unfortunately we do it badly: we succumb to emotionalism and willfulness, we respond to our habits and conditioning, we plead our special interests, and we reason illogically on the basis of faulty perceptions and fallacious assumptions. Strangely enough, we often do our most confused thinking in matters of greatest concern: the nature of happiness and beauty, good and evil; distinctions of true and false, wise and foolish; the nature of reality and our relationship with it.

Philosophy is neither dogma, nor advice for daily living, nor a body of comforting truisms and witty generalizations. Neither is philosophy and attempt to simplify reality, to transform it, or to explain it away. Rather, philosophy examines the premises on which systematic thought may rest; it explores the types of thought that may be produced in such areas of concern as ethics, politics, aesthetics, metaphysics, and epistemology; and it evaluates the advantages and penalties inherent in various modes and systems of thought. Thus philosophy encourages the thinking person to think well: to develop his self-conception and his world-view, his values, expectations, commitments and loyalties in a rational and realistic manner.

Courses of Instruction
Philosophy

200. **Introduction to Philosophy** Three hours

A survey of the principal problems arising out of man's attempts to organize his experience and direct his existence.

300. **Logic** Three hours

An analysis and exposition of the requirements for justifiable deductive and inductive reasoning. The principles or rational argumentation and inference in scientific methods are emphasized.

325. **Ethics** Three hours

An historical study of the basis of judging human actions right and wrong, good and bad. The main classical positions are evaluated and the impact of contemporary knowledge upon the central problems of ethics will be discussed.

350. **Comparative Religion** Three hours

Description and analysis of the philosophical systems underlying the major non-Christian religions. Attention will be focused upon the historical and psychological development of religious beliefs.

PHYSICS — PHYSICAL SCIENCE

(Division of Science)

The Department of Physics — Physical Science offers a minor field for students obtaining a Bachelor of Science or a Bachelor of Arts degree. Instruction is offered for students entering professions where a fundamental knowledge of physics is required.

An A.B. in Education degree with a specialization in secondary-school physics is offered with emphasis on promoting inquiry and further study as well as competency in teaching.

BACHELOR OF SCIENCE OR BACHELOR OF ARTS DEGREE
MINOR 32-35 hours
Required Courses
Physics 101, 102, and 310
Physics 320, 321, or 420, 421
Physics 340
Mathematics 112, 115, and 116

Curricula for Teaching Fields and Specializations in Physics and General Science

PHYSICS, General Science Comprehensive, grades 7-12 46 Sem. Hrs.

Chemistry	*101	General Chemistry	4
Chemistry	*102	General Chemistry	4
Physics	*101	Introduction to Physics	4
Physics	*102	Introduction to Physics	4
Physics	201	Demonstrations in Physics	3
Physics	*310	Electricity and Electronics	4
Biology	101	Introduction to Biology	3
Biology	102	Introduction to Biology	3
Geology	*101	General Geology	3
Physics	*202	Astronomy	3
Electives		Minimum of 5 hours in Physics Chemistry 0-4 hrs. Physics 5-9 hrs.	9
Science	431	Methods and Materials in Teaching Science (offered only second semester of each year)	2

PHYSICS, Single Teaching Field, grades 7-12 38 Sem. Hrs.
Same as required in Physics above but omit Geology 101, Physics 202.

GENERAL SCIENCE, Subject Specialization, grades 1-9 or 7-9 31 Sem. Hrs.

Biology	101, 102	Introduction to Biology	6
*Chemistry	101, 102	General Chemistry	8
*Physics	101, 102	Introduction to Physics	8
*Geology	101	General Geology	3
*Physics	201	Demonstrations in Physics	3
*Physics	202	Astronomy	3

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* Courses marked with an asterisk must be completed prior to admission to the Professional Block.

Courses of Instruction
Physics and Physical Science

101. **Introduction to Physics** Four hours

A two-hour laboratory period each week supplements the three lecture-recitation periods. Elementary principles of mechanics, sound, and heat are studied in this course.

102. **Introduction to Physics** Four hours

A continuation of 101; includes a study of magnetism, electricity, light and atomic structure.

201. **Demonstrations in Physics** Two-Three hours

Effective use of everyday materials to illustrate physical phenomena, experience with a variety of lecture equipment, and practice in planning and executing demonstrations describe the nature of this course. It is designed to serve teachers in both the elementary and secondary schools. PR: Consent of the instructor is sufficient, but a course in one of the physical sciences is highly recommended.

202. **Astronomy** Three hours

A study of the physical properties of the solar system, stars, and galaxies, including the concepts of motion, space and time. Occasional night sessions. PR: Recommended-Physics 101.

261. **Modern Physics for Teachers** Three hours

A review of current developments in modern physics. The emphasis is on content and import, rather than a rigorous mathematical approach.

262. **Modern Physics for Teachers** Three hours

A continuation of Physics 261.

310. **Electricity and Electronics** Four hours

This course includes static electricity, direct and alternating current theory and means of transforming electrical power. The theory of the vacuum tube and electronics is introduced. Four hours laboratory and two hours lecture each week is required.

320. **Mechanics** Three hours

A course in mechanics applied to the study of particles and objects in space with the general principles of astronomy and the information of rotating system in the universe. General theories of the universe and experimental facts will be presented in an elementary manner. PR: Math 315.

321. **Mechanics** Three hours

A continuation of 320.

340. **Special Problems** Two-Three hours

Individual studies by advanced students of problems of special interest in the field of physics. PR: Physics 101, 102, Math 215.

420. **Introduction to Atomic Physics** Three hours

This course deals with the study of charged particles, ionization, and conduction of electricity through gases, electromagnetic radiation, and the theory of atomic structure.

421. **Introduction to Atomic Physics** Three hours

A continuation of 420.

Physical Science

Physical Science is offered as a fulfillment of the General Education requirement and as an integral part of various science-oriented teaching fields.

PHYSICAL SCIENCE

201. **General Physical Science** Three hours

Materials are selected from the areas of astronomy and physics. Astronomy emphasizes information about planets, stars, galaxies, and structure of the universe; while physics is devoted to the study of measurement, motion, energy, and waves.

202. **General Physical Science** Three hours

Materials are selected from the areas of chemistry and earth-science. Chemistry emphasizes the study of units related to non-metals, metals, and recent organic chemistry; while earth-science is devoted to the study of the earth's history and crust. In addition, careful study is made of rocks, minerals, and our atmosphere.

412. **Science in the Elementary School** Two hours

This course is designed as "a study of modern practices and techniques in the teaching of science. Students are to be guided in developing instructional units in such areas as the earth and its atmosphere, conservation, living things (plants and animals), energy changes (machines, light, sound, electricity, and magnetism) and outer space." PR: Biol. 101, 102 and 6-8 hours in the physical sciences.

431. **Methods and Materials in Teaching Science** Two hours

Course is designed for students preparing to teach science at the secondary school level. Students will investigate the nature of science and science teaching, develop instructional units, become familiar with science curriculum projects, and study the special instructional procedures related to science teaching. Offered only second semester of each year.

POLITICAL SCIENCE

(Division of Social Science)

A major in Political Science is designed to provide understanding of the realities of the modern world for the effective discharge of civic responsibility and for those students who wish to prepare for positions in government service or for graduate study in international relations, law, journalism, teaching, or allied fields. Students majoring in Political Science are encouraged to investigate other areas of study which will enable them to develop interdisciplinary insights in political science.

MAJOR		30 Sem. Hrs.
Required Courses		
103 American National Government	3	
Electives in Political Science	27	

MINOR		15 Sem. Hrs.
Required Courses		
103 American National Government	3	
Electives		
Any other Political Science Courses	12	

Courses of Instruction
Political Science

103. **American Government** Three hours

A survey of the American political system dealing with the form and function of the American federal system.

200. **Introduction to Political Science** Three hours

A study of the fundamentals of politics and key issues; the concept of the state and its agent, government; types of political authority; the scope of governmental activities; the problem of world order. PR: 103.

201. **Principles of International Relations** Three hours

A study designed to acquaint the student with the theory and practice of international relations. PR: 103.

203. **Comparative Government** Three hours

A survey designed to give a broad general acquaintance with the political institutions and government practices of certain nations. PR: political science 103.

205. **State and Local Government** Three hours

A study of the structure and function of American state and local governments. PR: 103.

303. **Political Parties** Three hours

A study of the origins, growth, and development of the American political party. PR: 103.

304. **American Constitutional Government** Three hours

A study of the constitutional development of the American Federal System. PR: 103.

305. **American Political Theory** Three hours

A study of the political literature which has given expression to the ideas of individual liberty enjoyed by American citizens. PR: 103.

310. **Recent Political Theory** Three hours

An analysis of the development and theoretical foundations of three major ideologies of the nineteenth and twentieth centuries: Communism, Fascism, and Democracy. PR: 103 and consent.

350. **International Organization** Three hours

A study of the structure and functions of international institutions and legal processes involved in the effort to maintain peace and security in the world. PR: 103.

360. **Government and Politics of the Far East** Three hours

A study of political systems and developments in the countries of Communist and Nationalist China, South and North Korea, and Japan, with emphasis on Communist China, including such relevant aspects as the historical foundation, the economic problems, and the foreign policy of the state.

406. **International Problems** Three hours

The foreign policies of the nations and the machinery established and functioning for the peaceful adjustments of international differences. PR: 103 and consent of instructor.

410. **Problems in American Government** Three hours

A study of current problems affecting the structure and function of American national government. PR: Political Science 103 and consent of instructor.

411. **Area Study** Three hours

A study of a selected area or region of the world conducted on an inter-disciplinary basis. The area selected and the time span studied will be determined by the instructor or instructors. PR: consent of the instructor.

470. **Seminar in Political Science**

A survey of recent developments in the practice and theory of politics with an emphasis on independent study. PR: Consent of the instructor.

PSYCHOLOGY

(Division of Social Science)

The Psychology Curriculum at FSC represents the dynamic place that psychology, the science of behavior, holds in the evolution of academia and society. Through the three alternatives for a major in psychology and the various course offerings, the Curriculum meets the demands of majors, minors, the campus community, and the much larger community beyond the campus.

The General Program for majors or minors affords students a sound background of course work in basic Psychology that is excellent preparation for graduate school in psychology or allied behavioral sciences. Further, these courses fulfill a need for understanding and information sought by students and community members dealing with problems of both personal and societal adjustments.

The Technical Programs offer a para-professional degree in either Community Service or Industrial-Personnel Psychology. These programs, founded upon basic psychology courses from the General Program, develop marketable skills that prepare the graduate for a career in the use of psychological techniques and principles applied to community and industrial situations.

Only one A. B. degree in psychology is conferred but three alternatives for a major are offered. Only one minor, in the General Program, is offered. The Technical Programs do not offer a minor.

Students interested in psychology as a major should consult a member of the psychology department during their first year.

Psychology

GENERAL

MAJOR — 37 Sem. Hrs.

Required Courses

101	Introduction to Psychology I	3
102	Introduction to Psychology II	3
210	Personal Adjustment	3
*230	Social Psychology (Same as Soc. 305)	3
240	Statistics	4
300	Abnormal	3
310	Experimental	3
330	Developmental	3
350	Physiological	3
370	Theories of Learning	3
400	Psychological Assessment	3
460	Seminar	3

MINOR — 18 Sem. Hrs.

Requirements

101	Introduction to Psychology I	3
102	Introduction to Psychology II	3
	Any two courses from the 200 Level	6
	Any two courses from the 300 or 400 Levels	6

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* For credit towards a Degree or Minor in Psychology, this course must be registered under Psychology 230. Credit for both Psychology and Sociology is not permitted.

INDUSTRIAL-PERSONNEL

46 Sem. Hrs.

Required General Courses — 31 Sem. Hrs.

101	Introduction to Psychology I	3
102	Introduction to Psychology II	3
210	Personal Adjustment	3
*230	Social Psychology (Same as Soc. 305)	3
240	Statistics	4
260	Industrial and Personnel	3
310	Experimental	3
360	Human Learning	3
400	Psychological Assessment	3
460	Seminar	3

Required Technical Courses — 15 Sem. Hrs.

481	Methods I	3
483	Methods II	3
485	Advanced Psychometrics	3
487	Practicum I	3
489	Practicum II	3

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* For credit towards a Degree or Minor in Psychology, this course must be registered under Psychology 230. Credit for both Psychology and Sociology is not permitted.

COMMUNITY SERVICE **52 Sem. Hrs.**

Required General Courses 28 Sem. Hrs.

101	Introduction to Psychology I	3
102	Introduction to Psychology II	3
210	Personal Adjustment	3
240	Statistics	4
250	Community Psychology	3
300	Abnormal	3
330	Developmental	3
400	Psychological Assessment	3
460	Seminar	3

Required Technical Courses 12 Sem. Hrs.

491	Psychopathology of Childhood and Adolescents	3
493	Aging	3
495	Delinquency	3

Any two of the above three

497	Practicum I	3
498	Practicum II	3

Required Elective Courses 12 Sem. Hrs.

Usually courses from disciplines outside of Psychology. Electives decided upon in consultation with consent of advisor.

Courses of Instruction

Psychology

General Program

101. **Introduction to Psychology I** Three hours

Topics include: Psychology as a science, statistics, learning, motivation, emotion, personality, and developmental psychology.

102. **Introduction to Psychology II** Three hours

Topics include: physiology, sensation, perception, social, behavior pathology, cognitive processes, industrial, community, testing, and Psychology as a profession. PR: Psychology 101.

210. **Personal Adjustment** Three hours

A basic course in the analysis of human behavior. Special emphasis is given to the mechanisms of adjustment and the development of healthy individual adjustment modes. PR: Psychology 101.

220. **History of Psychology** Three hours

Traces the development of the science of Psychology from its origins in philosophy, physiology, and medicine, to the modern era. PR: Psychology 101.

230. **Social Psychology (Same as Sociology 305)** Three hours

A study of how man affects and is affected by other men. Topics include: Social psychological foundations of person perception, affiliation, influence, group structure and dynamics, attitude formation and change. PR: Psychology 101.

240. **Statistics** Four hours

Elementary statistical description and analysis as employed particularly in the behavioral sciences. Three hours lecture, one hour laboratory per week.

250. **Community Psychology** Three hours

Lectures, discussion, readings, and field-observation designed to acquaint the student with the philosophy, technique, and theory, of community mental health. PR: Psychology 101.

260. **Industrial and Personnel Psychology** Three hours

Psychological concepts and methods as applied to personnel management, human-factors engineering, employee selection, motivation, training, productivity, consumer psychology, and human relations. PR: Psychology 101.

300. **Abnormal** Three hours

A survey of the causes, diagnosis, treatment, and prevention, of various maladjustments and personality disturbances. PR: Psychology 101, 210, 240.

310. **Experimental** Three hours

An introduction to the procedures of experimental research, design, and evaluation, using principally laboratory techniques. Two hours lecture, two hours laboratory weekly. PR: Psychology 101, 102, 240.

320. **Sensation and Perception** Three hours

An examination of the classical concepts in sensation and perception and of the resulting psycho-physical data for each of the major senses with an emphasis on vision and audition. Psychology and modern perceptual formulations are discussed through the analysis of empirical data. PR: Psychology 101, 102, 310.

330. **Developmental** Three hours

A longitudinal study of behavior change and development through the life-span of the human. Phases include prenatal to old age. Cross culture comparisons are made where possible. This course may not be substituted for or by Education 302 or 303 and Home Economics 330. PR: Psychology 101, 102.

340. **Operant Techniques and Applications** Three hours

A detailed study of operant techniques and methodologies from the experimental laboratory to the community at large. Emphasis is placed on the development of skills in the observation, manipulation, and evaluation, of various behavior control techniques in the light of ethical concerns. PR: Psychology 101, 102, 310, or Consent of Instructor.

350. **Physiological** Three hours

Basic development, structure, and function of the central nervous system, autonomic nervous system, and endocrine system. The emphasis is upon the relation between physiological functioning and the behavior of the normal, intact, whole organism. PR: Psychology 101, 102 or Consent of Instructor.

360. **Human Learning** Three hours

The study of the influences on and the processes of thinking, memory, perception, cognition, and verbal behavior, are emphasized. PR: Psychology 101, 102, 310, or Consent of Instructor.

370. **Theories of Learning** Three hours

A study of the experimental procedures, data, and concepts, dealing with changes in behavior usually defined as learning. The emphasis is on a detailed analysis of various theories of learning and contemporary approaches. PR: Psychology 101, 102, 310.

390. **Foundations of Psychology** Three hours

A detailed study of the methodological and philosophical issues involved in the analysis of behavior. Such topics as operationalism, formalism, reductionism, logical analysis and the nature of data in the behavioral sciences are introduced and related to research in the various areas of psychological interest. The objectives are to provide insight into the nature of scientific research, to foster the ability to construct empirical hypotheses, to develop facility in designing experimental tests of hypotheses, to promote effective reading and evaluation of psychological journals, and to encourage writing and speaking about theory and experimentation. PR: Psychology 101, 102, 310.

400. **Psychological Assessment** Three hours

General theory of measurement as involved in various areas of psychology such as psychological tests, attitude scales, psychophysics, and quantified behavior theory. PR: Psychology 240.

410. **Theories of Personality** Three hours

Critical consideration of the major theories of personality, including Freudian, neo-Freudian, a learning and trait theories. The basis of personality theory development will also be emphasized. PR: Psychology 101, 102, 300.

420. **Comparative-Ethological Psychology** Three hours

A study and comparison of the methods and major theories in ethology and psychology as related to the behavior of species at different phylogenetic levels. Through lectures, laboratory, and field observations, topics covered are: behavior as related to species, speciation and evolution; imprinting, learning, the place of animal experimentation in psychology, and aspects related to population and ecology. PR: Psychology 101, 102, 310, 370, or Consent of Instructor.

460. **Seminar** Three hours

The discussion of specific research topics as reported in the contemporary psychological literature and decided upon by the faculty instructor. Rotated among faculty each semester. Results from individual research projects are an object of this course. PR: Consent of Instructor. May be repeated once.

480. **Directed Studies** Variable Credit
One, Two, Three hours

Intensive study and reading of a topic selected by the student and instructor. Requirements and hours credit decided before registration through instructor-student consultation. PR: Consent of Instructor.

490. Directed Research Variable Credit
One, Two, Three hours

Opportunity for work on individual library or experimental projects. Requirements, including a thesis, and hours credit decided before registration through instructor-student consultation. PR: Consent of Instructor.

Industrial — Personnel Program

481. **Industrial Psychology, Methods I** Three hours

Skills and understanding are developed in the areas of job analysis, performance appraisal, training, motivation, attitudes, job satisfaction, productivity, and consumer psychology. Some field work required. PR: 101, 102, 230, 240, 260, 310, 360, or Consent of Instructor.

483. **Industrial Psychology Methods I** Three hours

Skills and understanding are developed in the areas of: leadership, supervision communication, organizational, behavior, accidents and safety, fatigue, monotony, working conditions, and engineering psychology. Some field work required. PR: 481 or Consent of Instructor.

485. **Advanced Psychometrics** Three hours

Topics concerned with personnel selection and placement, as well as a more advanced treatment of reliability and validity. Skills in these areas are developed. PR: 400.

487. **Practicum I** Three hours

489. **Practicum II** Three hours

These Practicums afford an application of knowledge and techniques developed within the Industrial-Personnel Program. Students work under supervision in participating businesses, industries, and institutions. The remaining time is spent in lectures, discussion, and reading to enhance the student's training. PR: Courses in Industrial-Personnel Program and Consent of Instructor.

Community Service Program

491. **Psychopathology of Childhood and Adolescents** Three hours

Problems of etiology, diagnosis and treatment of maladjustment in childhood and adolescence. Problems like drug addiction, juvenile delinquency are analyzed and discussed. PR: Psychology 300, 330, or Consent of Instructor.

493. **The Psychology of Aging** Three hours

A study of problems facing the aging. The psychological, social, and physiological aspects of aging and methods of treatment are analyzed and discussed. PR: Psychology 300, 330, or Consent of Instructor.

495. **The Psychology of Delinquency** Three hours

Factors in the etiology of the delinquent in the modern society with special emphasis on the urban scene. Personality and emotional problems associated with delinquency, and problems of treatment. Students will visit persons and institutions for juvenile delinquents. PR: 300, 330, or Consent of Instructor.

497. **Clinical Practicum I** Three hours

498. **Clinical Practicum II** Three hours

An application of knowledge and techniques developed within the psychology program. Students work under supervision in assigned agencies or institutions. Other practicum assignments are made as available. The remainder of time is spent in lectures, discussion, and reading to enhance the student's training. PR: Courses in Community Service Program plus Consent of Instructor.

SOCIAL STUDIES

(Division of Social Science)

The Social Studies program (comprehensive and subject specialization) is intended primarily for students preparing to teach in the elementary or secondary schools and can be selected only by those seeking an A. B. in Education degree. It is designed to provide an interdisciplinary foundation necessary for teachers entering an integrated social studies program. Students desiring to teach a particular subject such as history, for example, should determine the preparation desirable and augment their program with appropriate elective hours.

SOCIAL STUDIES, Comprehensive, grades 7-12 57 Sem. Hrs.

History	*107, 108	United States History	6
History	*111, 112	History of Civilization	6
History	*302	West Virginia	3
History	*460	Guided U. S. Historical Study	3
History	*461	Guided World Historical Study	3
History		Elective	3
Sociology	*110	Introductory Sociology	3
Sociology	200	Social Problems	3
Pol. Sci.	*103	American Government	3
Pol. Sci.		Elective, 200 or above	3
Geography	*210	World Regional Geography	3
Geography		Elective	3
Economics	*201, 202	Economic Principles & Problems	6

In addition, a choice must be made from **one** of the following:

1) History & Soc. Stud. electives 9
Six hours of History and three to be chosen from economics, geography, history, philosophy, political science, psychology, or sociology.

or

2) Twelve hours of a foreign language

or

3) A second teaching field, grades 1-9, 7-9, or 7-12.

431. Social Studies Two hours

Theory and practice in secondary school social studies. Students participate in laboratory exercises using various techniques of teaching social studies and become familiar with the professional literature in social studies teaching and its various disciplines. Each student is also required to plan and teach at least one micro-unit. (Included as part of the Professional Block)

SOCIAL STUDIES, Subject Specialization, grades 1-9 or 7-9 36 Sem. Hrs.

History	*107, 108	United States History	6
History	*111, 112	History of Civilization	6
History	*302	West Virginia	3

History	319	Recent America	3
History	341	Recent Europe	3
Geography	*210	World Regional Geography	3
Pol. Sci.	*103	American Government	3
Sociology	110	Introductory Sociology	3
Economics or	200	Economics	3
Economics	201	Economic Principles and Problems	3

One three-hour elective selected from history, geography, political science, economics or sociology 3

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* Courses marked with an asterisk must be completed prior to admission to the Professional Block.

SOCIOLOGY

(Division of Social Science)

The sociology department attempts to deepen students' questioning and understanding of social interaction in its various forms and of social and cultural systems. In its major program, the department hopes to provide knowledge of significant substantive areas of sociology and anthropology; a background in social theory; and facility in the use of concepts and research techniques of sociological investigation.

Students with a major in sociology will receive a broad preparation for various types of professions, occupations and services dealing with people. Also capable students will receive preparation for graduate training.

Sociology

MAJOR			30 Sem. Hrs.
Required Courses			12
110	Introductory Sociology	3	
200	Social Problems	3	
301	Anthropology	3	
470	Sociological Theory	3	
Electives in Sociology			12
MINOR			18 Sem. Hrs.
Required Courses			9
110	Introductory Sociology	3	
200	Social Problems	3	
301	Anthropology	3	
Electives in Sociology			9

Courses of Instruction
Sociology

110. **Introductory Sociology** Three hours

The course is built around selected sociological concepts to provide a general understanding of our modern society.

200. **Social Problems** Three hours

A study of social stresses and strains in important areas of human relationships. PR: Soc. 110.

301. **Anthropology** Three hours

A study of human biological and social origins, including human prehistory, race, the origin and nature of culture, social organization among preliterate peoples, cultural diffusion, and culture change. PR: Soc. 110.

305. **Social Psychology** Three hours

A study of social structure and social interaction. Techniques of leadership and control will receive special study. PR: Soc. 110. Psychology 101 or Education 302 and 303 recommended. Same course as psychology 230.

310. **Sociology of the Family** Three hours

A study of the background, structure and function of the American family with emphasis placed on the effect of social change upon the family. The meaning of the paired relationship is examined along with alternatives to marriage and the family. PR: Soc. 110.

325. **Social Stratification** Three hours

The course includes an analysis of social structure and stratification in terms of class, status, and power relations in society; an examination of theories and research findings.

330. **Urban Sociology** Three hours

A study of the characteristics of urban society including its culture, social relationships and institutions. Urban society is studied in comparison with rural society as a part of the American Society. PR: Soc. 110, 200.

340. **Juvenile Delinquency** Three hours

A study of what society defines as delinquent behavior and of the young people designated as delinquents. Emphasis will be placed on the causes of delinquency and on the various techniques and methods of prevention, treatment, and rehabilitation. PR: Soc. 110, 200.

360. **The Field of Social Work** Three hours

A study of the history and development of social work with special emphasis upon modern social work agencies and the services which they render. Various types of social work will be considered from the standpoint of the prospective social worker. PR: Soc. 110, 200, Psych. 103.

370. **Social Welfare as a Social Institution** Three hours

The examination of the inter-relationship among various social welfare programs, policy issues, and the rate of social work in terms of the American social welfare system. PR: 360. This course may not be used for the social studies teaching field.

380. **Afro-American History & Culture** Three hours

A multi-disciplinary approach to the Negro in American life beginning with African civilization and covering the period up to and including the American Civil War. (Credit in History or Sociology)

381. **The Black Man in America** Three hours

An in-depth study of the history and culture of the Black Man in the United States from 1865 to present. (credit in history or sociology)

410. **Industrial Sociology** Three hours

A study of the organization, structure, function and social relationship found in the various areas of industrial activity in American society. The area of industrial relations will receive special emphasis. PR: Soc. 110.

430. **Community Organization** Three hours

A study of the structure and function of the various social groupings found in the community. The course is oriented toward the development of community leadership talent. PR: Soc. 110, 200.

450. **Minority Groups** Three hours

A study of racial and cultural minority groups in the United States with special emphasis upon understanding the cause of their persistence and the reason for majority-minority antagonisms. A study of the techniques whereby prejudices are developed and reduced will be made. PR: Soc. 110, 200.

460. **Methods of Social Research** Three hours

This course is an introduction to the planning and implementation of social research projects. The course will consider the topics of variables & hypotheses, flowcharts, tables, questionnaires, coding instructions & data sheets, machine processing, and survey analysis of the data. PR: 110 and 200.

461. **Advanced Methodology** Three hours

This course will critically interrelate and compare the various stages of social research such as conceptualization of hypothesis, measurement, experimental design, sampling, data collection, data analysis, and data interpretation. Within this format, various special topics will be developed depending upon the available resources. PR: Soc. 460 or consent of the instructor.

470. **Sociological Theory** Three hours

A study of the historical development of modern sociological thought. PR: Consent of Instructor.

480. **Social Casework** Three hours

A study of the theory, philosophy, goals, and techniques of the social case worker and an examination of the pertinent literature. PR: 370. This course may not be used for the social studies teaching field.

485. **Practicum** Three hours

An examination of the social welfare agency in its daily operation complete with practical observation and experience. PR: 480. This course may not be used for the social studies teaching field.

490. **Seminar: Sociological Literature** Three hours

A course designed to use original sources and publications not primarily used as texts. PR: Soc. 470 or consent of instructor.

499. **Seminar: Special Problems in Sociology** Three hours

Open only for juniors and seniors majoring in Sociology. Reading and research on subjects suited to the student's need. PR: Soc. 470 or consent of instructor.

SPEECH AND DRAMA

Oral communication, man's chief means of communication, has as its purpose to gain utilitarian, aesthetic, and therapeutic results in effective human interaction. All oral communication—public speaking, small group processes, theatre, speech correction and audiology, radio and television, speech education and the allied performance areas—are tied together by common elements of behavior and techniques. The Speech and Drama Department has as its primary aim to assist students in understanding these functions, processes, and effects of oral communication and to teach the principles and methods that make the spoken word effective. The department offerings are designed to meet several needs—curricular and co-curricular:

First, for all students who desire to improve their oral communication skills Speech 101 (Fundamentals of Speech), Speech 107 (Speech Improvement), and Speech 210 (Speech for the Teacher) are offered. If students wish to continue their work, other courses in discussion, debate, interpretative reading, public speaking, theatre, and radio and television may be elected.

Second, for those wishing a Bachelor of Arts degree, a major or minor in Speech and Drama is offered with options in either drama or speech-communication.

Third, for students wishing to prepare to teach speech and drama on the secondary level (grades 7-12), a single teaching field in Speech is offered.

Fourth, for those students who wish to prepare to teach speech and drama on the elementary level (grades 1-9, 7-9), a subject specialization in Speech is offered.

Fifth, all students are invited to participate in all or any of the Speech and Drama Department activities: inter-collegiate debate, discussion, oratory, extemporaneous speaking, and interpretative reading, plays presented by the Masquers, the Masquers Jr. (children's theatre), the Masquers Town and Gown Players (summer theatre), the studio theatre, and radio and television activities.

Speech and Drama

MAJOR			34 Sem. Hrs.
I. **Required Courses**			12
Speech 101	Fundamentals of Speech	3	
Speech 105	Voice and Diction	3	
Speech 130	Introduction to Broadcasting	2	
Drama 120	Theatre Appreciation	2	
Drama 221	Oral Interpretation	2	

II. **Options** Select a minimum of 22 semester hours from Drama Option or Speech Communication Option.

A. **Drama Option**

1. Required Courses			16
Drama 151*	Play Production	2	
Drama 152*	Theatre Workshop	1*	
Drama 251	Acting	2	
Drama 252	Acting Workshop	1	
Drama 260	Theatre History	3	
Drama 270	Introduction to Theatrical Design	3	

Drama 301	Theatrical Make-up	1
Drama 336	Play Directing	2
Drama 337	Play Directing Practicum	1

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* The one required hour in Speech 152 (Theatre Workshop) must be taken concurrently with Speech 151 (Play Production). Previously acquired credit in Speech 152 will **not** fulfill the requirement.

2. Elective Courses 6

Drama 152	Theatre Workshop	1-3
Drama 222	Advanced Oral Interpretation	2
Drama 223	Oral Interpretation Practicum	1-4
Drama 252	Acting Workshop	1-3
Drama 302	Advanced Theatrical Make-up	1
Drama 321	Summer Theatre: Rehearsal and Performance	1-3
Drama 322	Summer Theatre: Production and Management	1-3
Drama 338	Children's Drama	3
Drama 339	Creative Drama Practicum	1
Drama 340	Children's Theatre Practicum	1
Drama 441	Directed Study in Drama	1

3. Recommended Related Courses
Art 255 or Music 205 (one not used to meet General Requirements), English 318, English 315, English 422, Music 139, Music 141, Art 142, PE 145, PE 147, PE 148.

B. Speech-Communication Option

1. Required Courses 16

Speech 134	Radio and TV Production	3
Speech 237	Persuasive Speaking	2
Speech 240	Group Discussion	3
Speech 243	Argumentation and Debate	3
Speech 245	Oratory	1
Speech 401	Extemporaneous Speaking	1
Speech 430	Speech Correction	3

2. Elective Courses 6

Speech 200	Radio/TV Announcing	3
Drama 222	Advanced Oral Interpretation	2
Drama 223	Oral Interpretation Practicum	1-4
Speech 244	Intercollegiate Debate	1-4
Speech 250	Broadcast Continuity Writing	3
Speech 300	Broadcast Practicum	1-6
Speech 402	Public Speaking Practicum	1-4
Speech 440	Directed Study in Speech	1

3. Recommended Related Courses
English 319, Journalism 270, Psychology 101, Psychology 240.

III. Performance

In order that a student majoring or minoring in Speech and Drama may be recommended for graduation by the Speech and Drama faculty, he must perform extensively in one or more of the department faculty directed/sponsored public performance areas listed below. The activities in these areas are necessary co-curricular supplements and extensions of classroom experiences. The student's performances in the areas must be extensive enough that the student reaches a satisfactory level of proficiency in at least one of the performance areas. A periodic appraisal of the extent of the student's performance and level of proficiency will be made.

Performance Areas

1. **Drama:** acting, technical crews, directing, public relations, house management, business management, etc. with Masquers, Masquers Town and Gown Players, Masquers, Jr., or studio theatre presentations.
2. **Oral Interpretation:** reader's theatre, inter-collegiate festivals, contests, and other public performances.
3. **Public Speaking (forensics):** inter-collegiate debate, public speaking contests, festivals, and other public speaking presentations.
4. **Radio/TV:** acting, producing, writing, announcing, etc. for FSC campus radio and TV public broadcasts.

MINOR 28 Sem. Hrs.

I. **Required Courses** (Same as Major) 12

II. **Options** Select the minimum of the 16 required semester hours from Drama Option or the Speech-Communication Option

III. **Performance** (Same as Major)

Curricula for Teaching Fields and Specializations in Speech

Single Teaching Field, Grades 7-12 32 Sem. Hrs.

I. **Required Courses** 27 Sem. Hrs.

Speech	105*	Voice and Diction	3
Speech	130*	Introduction to Broadcasting	2
Drama**	151*	Play Production	2
Drama**	152*	Theatre Workshop	1
Speech	210*	Speech for the Teacher	3
Drama	221*	Oral Interpretation	2
Speech	237*	Persuasive Speaking	2
Speech	243*	Argumentation and Debate	3
Speech	245	Oratory	1
Drama	251*	Acting	2
Drama	336*	Play Directing	2
Drama	337*	Play Directing Practicum	1
Speech	430	Speech Correction	3

** The one **required** hour in Speech 152 (Theatre Workshop) **must** be taken concurrently with Speech 151 (Play Production). Previously acquired credit in Speech 152 will **not** fulfill this requirement.

II. **Elective Courses.** Select from either or both areas. 5 Sem. Hrs.

Drama

Drama	120	Theatre Appreciation	2
Drama	152	Theatre Workshop	1-3

Drama 222	Advanced Oral Interpretation	2
Drama 223	Oral Interpretation Practicum	1-4
Drama 252	Acting Workshop	1-4
Drama 260	Theatre History	3
Drama 270	Introduction to Theatrical Design	3
Drama 301	Theatrical Make-up	1
Drama 302	Advanced Theatrical Make-up	1
Drama 321	Summer Theatre: Rehearsal and Performance	1-3
Drama 322	Summer Theatre: Production and Management	1-3
Drama 338	Children's Drama	3
Drama 339	Creative Drama Practicum	1
Drama 340	Children's Theatre Practicum	1
Drama 441	Directed Study in Drama	1

Speech-Communication

Speech 101	Fundamentals of Speech	3
Speech 134	Radio and TV Production	3
Speech 200	Radio/TV Announcing	3
Speech 240	Group Discussion	3
Speech 244	Intercollegiate Debate	1-4
Speech 250	Broadcast Continuity Writing	3
Speech 300	Broadcast Practicum	1-6
Speech 401	Extemporaneous Speaking	1
Speech 402	Public Speaking Practicum	1-4
Speech 440	Directed Study in Speech	1

III. Performance

In order that the AB in Education student with a teaching field in Speech (grades 7-12) or Language Arts Comprehensive (grades 7-12) may be able to meet the competencies for state teacher accreditation and hence be recommended for the Professional Block by the Speech and Drama faculty, he must perform extensively in one or more of the department faculty directed/sponsored public performance areas listed below. The activities in these areas are necessary co-curricular supplements and extensions of classroom experiences. The student's performances in the areas must be extensive enough that the student reaches a satisfactory level of proficiency in at least one of the performance areas. A periodic appraisal of the extent of the student's performance and level of proficiency will be made.

Performance Areas

1. **Drama:** acting, technical crews, directing, public relations, house management, business management, etc. with Masquers, Masquers Town and Gown Players, Masquers, Jr., or studio theatre presentations.

2. **Oral Interpretation:** reader's theatre, inter-collegiate festivals, contests, and public performances.

3. **Public Speaking (forensics):** inter-collegiate debate, public speaking contests, festivals, and other public speaking presentations.

4. **Radio/TV:** acting, producing, writing, announcing, etc. for FSC campus radio and TV public broadcasts.

Subject Specialization, Grades 1-9, 7-9

I. **Required Courses** 22-23 Sem. Hrs.

Speech	105*	Voice and Diction	3
Speech	210*	Speech for the Teacher	3
Drama	221*	Oral Interpretation	2
Speech	237*	Persuasive Speaking	2
		or	or
Speech	240*	Group Discussion	3
Drama	251*	Acting	2
Drama	336*	Play Directing	2
Drama	337	Play Directing Practicum	1
Drama	338*	Children's Drama	3
Drama	339	Creative Drama Practicum	1
		or	or
Drama	340	Children's Theatre Practicum	1
Speech	430	Speech Correction	3

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* Courses marked with an asterisk must be completed prior to admission to the Professional Block.

Courses of Instruction
Speech and Drama

Drama

120. **Theatre Appreciation** Two hours

Study of drama as it occurs on stage, in movies, and in radio and television in order to form a critical appreciation of its purpose and effects. Alternate semesters.

151. **Play Production** Two hours

Lecture course introducing the student to the principles and techniques of the organization, planning, and execution of technical theatre production, including scenery, properties, lighting, costuming, sound, and stage management.

152. **Theatre Workshop** One-Four hours

Crew work is assigned to Masquers productions, studio theatre productions and/or reader's theatre. Opportunities for experience in all areas of technical theatre such as scenic construction, property, lighting, costume, and sound crews, depending upon the proficiency of the student. One hour of credit taken concurrently with Speech 151 is required of all AB Majors and Minors in Speech and Drama (Drama Option) and AB in Education with teaching fields in Speech and Drama (grades 7-12) and Language Arts Comprehensive (grades 7-12). No more than one hour can be earned during a semester.

221. **Oral Interpretation** Two hours

An introductory study and practice of the principles involved in understanding the meaning of prose, poetry, and dramatic literature and in the effective oral and/or bodily transmission of that meaning to a listening and/or viewing audience. PR: Speech 105 or consent.

222. Advanced Oral Interpretation Two hours

A study of the special problems of oral interpretation in the areas of prose, poetry, and dramatic literature. Alternate semesters. Not a substitute for Drama 221. PR: Drama 221 or consent.

223. Oral Interpretation Practicum One-Four hours

Preparation for and participation in public performances and intercollegiate competitions and festivals in oral interpretation. Maximum credit earned a semester is one credit hour. PR: Drama 222 and/or consent of instructor.

251. Acting Two hours

Introduction to the theory and practice of fundamental acting techniques for the stage. PR: Drama 221 or consent.

252. Acting Workshop One-Four hours

Public performance or the equivalent in Masquers or studio theatre dramatic productions. Maximum credit earned a semester is one credit hour. PR: Consent.

260. Theatre History Three hours

Historical examination of the major theatrical periods through a study of the important playwrights, theorists, and other practitioners of each era. Alternate semesters.

270. Introduction to Theatrical Design Three hours

An introduction to the principles of theatrical design, including scenic, lighting, and costume design. Alternate semesters. PR: Consent.

301. Theatrical Make-up One hour

Fundamentals of the theory and technique of designing and applying theatrical make-up, including laboratory experience and practical experience with Masquers productions and studio theatre productions.

302. Advanced Theatrical Make-up One hour

Practice in advanced design and application of theatrical makeup. Assigned to Masquers productions and studio theatre productions. (Formerly Speech 301L Advanced Make-up) PR: Drama 301.

321. Summer Theatre: Rehearsal and Performance One-Three hours

Systematic rehearsal and public performance with the Masquers Town and Gown Players (community-college summer theatre). Designed for students who desire concentrated stage training and experience. Roles assigned dependent upon directors' selection and hours credit desired. PR: Auditions.

322. Summer Theatre: Production and Management One-Three hours

Experiences provided in every phase of theatrical production and some phases of theatre management in conjunction with the Masquers Town and Gown Players (community-college summer theatre). Experiences include set designing and constructing, lighting, costuming, make-up, box office, house managing, and publicity. Assignments dependent upon hours credit desired. PR: Consent.

336. **Play Directing** Two hours

Principles and techniques of play directing. Special attention given to directing problems in educational theatre: play selection, budgeting, casting, mounting, and staging, public relations, and coordination of crafts. PR: Drama 151, 152 and /or Drama 251 and consent.

337. **Play Directing Practicum** One hour

Direction and public presentation of a one-act play. (Formerly Speech 336L, Play Directing Laboratory). PR: Drama 336 and consent.

338. **Children's Drama** Three hours

A lecture course providing an introduction to the theories and techniques involved in both creative drama for children and children's theatre. (Formerly Speech 331, Children's Drama).

339. **Creative Drama Practicum** One hour

Theories and techniques learned in Drama 338 are applied in supervised guidance of children in creative drama experiences. (Formerly Speech 331L, Children's Drama Laboratory). PR: Drama 338 and consent.

340. **Children's Theatre Practicum** One hour

The student's practical application of theories and techniques learned in Drama 338 through auditioning for and working technical crews for a Masquers, Jr. (children's theatre) production. (Formerly Speech 331L, Children's Drama Laboratory). PR: Speech 339 and consent.

441. **Directed Study in Drama** One hour

The student selects directed study in any area of theatre which is not treated in the drama course offerings. Course is designed by student and selected faculty with approval of department chairman. Open to Juniors and Seniors only. PR: Consent of instructor and Department Chairman.

Speech

101. **Fundamentals of Speech** Three hours

Primarily concerned with the creation, organization, presentation, and analysis of oral messages. An introductory study of the elements of the human oral communication process.

105. **Voice and Diction** Three hours

Theory and practice of speech science to provide basic information prerequisite to further speech and drama study and to improve the skills of the speaking voice. Open to speech and drama students and music students only.

107. **Speech Improvement** Two hours

Designed for students who wish to improve the effectiveness of their speech (voice and diction). Training in pronunciation, enunciation, and voice production in order to develop standard speech. Therapy for major speech disorders is not administered. May not be substituted for Speech 105 requirement.

130. **Introduction to Broadcasting** Two hours

Survey of the industry and its role in today's society. Historical development and current responsibilities of broadcasting. Organization of stations and their relation to networks. Federal regulations and industry codes.

Technical aspects of radio and television. Brief consideration of programming and production techniques. Field trips to area commercial and educational stations. (Formerly Speech 330, Fundamentals of Radio and Television.) Alternate semesters.

134. **Radio/Television Production** Three hours

Production of and participation in actual broadcasts. A study of the techniques used in programming, directing, continuity writing, and music and sound effects. Will require outside class studio practice time. (Formerly Speech 334, Radio and Television Production, 2 hours). May not be substituted for Speech 130 requirement. PR: Speech 130 or consent.

200. **Radio/Television Announcing** Three hours

Procedures and routines of announcing in both media. Staff assignments, regulations, logged broadcasting operation, reports, and government emergency procedures. Practice in reading of news, commercial and other types of broadcast copy. In-class production experience with opportunity of limited on-the-air announcing. Will require outside class studio practice time. PR: Speech 105 and 130 or 134 or consent.

210. **Speech for the Teacher** Three hours

An introduction to principles and practices of effective oral communication for the classroom teacher with all study and practice directed toward the special speaking and listening needs of elementary and secondary classroom teachers and their students. PR: English 104, 108. Required of all A.B. in Education students.

237. **Persuasive Speaking** Two hours

Designed to give advanced speech students training in the preparation, presentation, and critical analysis of persuasive speeches. PR: Speech 101 or 210 or consent.

240. **Group Discussion** Three hours

Study and practice of principles, types and methods of group discussion as it relates to committees, policy-making groups, conferences, public forums, and classroom teaching. Alternate semesters. PR: Speech 101 or 210 or consent.

243. **Argumentation and Debate** Three hours

A study of argumentation with practical application in educational debate. The national intercollegiate debate topic is researched and argued in class debates. PR: Speech 237 or consent.

244. **Intercollegiate Debate** One-Four hours

Training for and participation in intercollegiate debate tournaments at colleges and universities throughout the Eastern United States. Credit is also given for researching the intercollegiate debate proposition for the current academic year. Maximum credit in any one semester is one hour. PR: Speech 243 or consent.

245. **Oratory** One hour

Study of origin, historical influences, and changing aims of oratory. Practice in development of memorized speeches for competition. Alternate semesters. PR: Speech 237 or consent.

250. Broadcast Continuity Writing Three hours

Formats of all types of radio and television writing except dramatic scripts. Continuity for talks, interviews, discussion, music, variety, documentary programs, and commercials. Students may participate in studio productions of writing projects. Alternate semesters. PR: Speech 130.

300. Broadcast Practicum One-Six hours

Radio staff positions on the FSC FM educational radio station are open to any qualified FSC student who has completed the freshman year of study. Each staff position allows the student to earn one credit hour per semester. A student may work for a maximum of six semesters or six credit hours. Speech 300 will be offered both Fall and Spring semesters and both summer sessions. PR: Speech 130 and/or 134 and consent.

401. Extemporaneous Speaking One hour

Study or origin, aim and development of extemporaneous speeches. Preparation for competition. Alternate semesters. PR: Speech 237 or consent.

402. Public Speaking Practicum One-Four hours

Preparation for and participation in public performances and intercollegiate competitions and festivals in public speaking, i.e., after-dinner, extemporaneous, oratory, etc. Maximum credit in any semester is one hour. PR: Speech 237 and/or consent.

430. Speech Correction Three hours

An introduction to the field of speech therapy and audiology. Emphasis placed on identification of all speech defects, their diagnosis, and preventive and remedial techniques.

431. Methods and Materials in Teaching Speech and Drama Two hours

Philosophy, methods, and materials of teaching speech and drama and of directing the speech and drama co-curricular and extra-curricular activities in the secondary schools. Fulfills Professional Block requirement for those with a single teaching field in speech and drama. Alternate semesters.

440. Directed Study in Speech One hour

The student elects directed study in any area of speech-communication which is not treated in the speech course offerings. Course is designed by the student and selected faculty with approval of department chairman. Open to Juniors and Seniors only. PR: Consent of instructor and Department Chairman.

Requirements for the Bachelor of Arts Degree in Education

The education of teachers at Fairmont State College is designed to utilize the cooperative functions of the several subject matter areas and the division of professional education. The philosophy of the College is that adequate preparation for teaching requires rich and comprehensive experience in the area of general education, concentration in a comprehensive or in two of the subject matter fields, and the development of certain attitudes, skills and understanding which characterize effective teaching. The State Board of Education has adopted a program of general and professional education which is required of all students preparing for teaching.

Teaching Fields and Specializations

Fairmont State College offers teaching curricula leading to the degree of Bachelor of Arts in Education. Students satisfactorily completing the teaching curriculum in a given area will qualify for a Professional Certificate, grades K-8, 1-9, 1-12, or 7-12.

In planning for a career in elementary or secondary teaching, students may qualify for an assignment in the following fields or specialization:

Subject Specializations (1-9 or 7-9)

Art
Early Childhood
French
General Science
Health Education
Home Economics
Language Arts
Mathematics
Music, Vocal
Physical Education
Speech
Social Studies

Single Teaching Fields (7-12)

Art
Biology
Business Education, Secretarial
Chemistry
English
French
General Shop
Health Education
Journalism
Mathematics
Physical Education
Physics
Speech

Comprehensive Teaching Fields (7-12)

Biological, General Science
Business Education
Chemistry, General Science
Home Economics—Vocational
Industrial Arts
Language Arts
Mathematics
Physics, General Science
Social Studies

Comprehensive Teaching Fields (1-12)

Art
Music

Comprehensive Teaching Field (K-12)

School Librarian

Specific field and specialization combinations for elementary and secondary education programs are identified in the section entitled Teaching Curricula.

It is the responsibility of candidates for a degree to know and to meet the general requirements of the College and the specific requirements of the chosen curriculum. It is the student's responsibility also to keep informed on his grade-point standing. All of this information may be obtained from the student's advisor or from the Associate Dean of Academic Affairs for Teacher Education.

Admission to Teacher Education

Any student of sophomore standing may enroll in the first professional course, Education 200, Introduction to Education. Students are not expected, in this course, to make a decision or an application for admission to teacher education. But it is required of all teacher education students, though non-teacher education students may take it as an elective.

The form, "Student Information Form, T-Form 64," is to be completed and filed with the Education Department before the completion of Education 200. A student will receive an "I" grade in this course until this form is filed.

In order to be eligible for enrollment in Education 302, Human Growth and Development, a student must be in good academic standing (i.e., he must not be on academic probation). The completion of Education 200 is also a requirement for enrollment in this course.

While enrolled in Education 302, those interested in pursuing the Teacher Education program shall make formal application by completing the form, "Application for Admission to the Teacher Education Program." To be accepted, the applicant must have a minimum quality point average of 2.0 overall and in each area of concentration or teaching field. He must have satisfactorily completed the required Written English courses and attain a "C" or better in English 108. He must, at the time of application, be passing Education 302. As a part of this application he must secure a favorable recommendation from the Health Department, the Social Dean, and his academic advisor.

Toward the close of the semester in which the student is enrolled in Education 302, the Selection Committee evaluates the information in his folder and arrives at one of the following decisions: Approved; Approved Conditionally; or Disapproved. The student is notified in writing of the Committee's decision, and he shall have the opportunity of appearing before the Committee if he is dissatisfied with its conclusions.

If a student has satisfactorily completed Education 302 and has approval of the Selection Committee, he is eligible to enroll in Education 303, Educational Psychology. While in this course, Teacher Education students shall make application for the Professional Block.

The Block System

Fairmont State College has adopted the block system for scheduling student teaching. The significant features of this plan are: (1) a semester is reserved for the student in which he or she will schedule a block of professional education subjects, including methods and student teaching; (2) a section of that semester will be used exclusively for student teaching; (3) during this period, the daily assignment for student teaching will comprise all hours the school is in session; (4) in addition to classroom assignments, student teachers will participate in the extra-curricular activities of the school and community.

One semester of the senior year will be used for scheduling a block of approximately 16 semester hours of professional courses. To schedule the Block a student must meet the requirements for student teaching as described below. Students and advisors should understand that the block system requires exact planning during the early years of the college career as well as in the senior year. All general studies requirements of the College as well as the minimum requirements of the teaching field will have to be completed before the Block can be scheduled.

Eligibility for the Professional Block is determined by the ability of the student to meet the following requirements:

1. a. Completion of 96 semester hours including 10 hours in education courses, and three-fourths of the required work in each teaching field or area of specialization. All courses in the teaching fields which are marked by an asterisk in this catalog must be completed before admission to the Block.
   b. Satsifactory completion of English 108, Advanced Written English, with a minimum grade of C, and Speech 210 with a minimum grade of C.
2. Divisional approval of the candidate's comprehensive field or two teaching fields and completion of professional education courses which are prerequisite to the block courses.
3. The student must be of good moral character (i.e. his reputation among students, faculty and in the community must be exemplary).
4. Students must have an average of C or better:
   a. On all semester hours to be counted toward graduation.
   b. On all semester hours earned in the division of education.
5. Have a 2.2 quality point average in each teaching field or specialization.
6. Present a statement from the College Health Service showing that the student has been given a physical examination and found to be physically fit for assignment to student teaching.

Students will not be permitted to schedule courses outside the Block or extracurricular activities which will in any way interfere with the course work.

Student Teaching

Student teaching is required in all curricula. Students must complete student teaching at the grade levels and in at least one of the teaching fields in which they expect to be certified. At the present time, student teaching experiences are provided in the public schools of Barbour, Marion, Harrison, Monongalia, Preston, and Taylor counties. All such experiences are cooperatively administered by College and public school personnel.

National Teacher Examination

All students in the Teacher Education Program are required to take the National Teacher Examinations prior to being recommended for graduation.

Summary of Degree Requirements

The requirements for the Bachelor of Arts in Education degree are: The candidate must earn a minimum of 128 hours credit in approved subjects with a quality point average of 2.0, or better, for all courses attempted and for all professional courses. He must attain a 2.2 average in each teaching field or specialization and shall meet the general and specific requirements set up for the curriculum and teaching fields he elects.

College Recommendation Prerequisite to Certification

College recommendation shall take into consideration Chapter 18A, Section 3, Article 1, of the West Virginia School Law which reads "A certificate to teach shall not be granted to any person who is not a citizen of the United States and is not of good moral character and physically and mentally qualified to perform the duties of a teacher, and who shall not have attained the age of eighteen years on or before the first day of October of the year in which his certificate is issued; . . ."

The issuance of an orginial certificate shall require:

1. The recommendation of the Chairman of the Division of Education in consultation with the supervisor of student teaching and chairman of the department offering the specialization in addition to the academic criteria, is expected to reflect satisfactory performance on the part of the applicant in a typical classroom situation.
2. An official statement that the approved program has been completed in full.

Teaching Curricula

Kindergarten through Grade 8.

Each student who is qualifying for teaching in Kindergarten through Grade 8 shall complete the following:

I. General Studies

II. Professional Education

III. Specialization

(a) The Diversified Program for teaching in a self-contained classroom

and

(b) The Early Childhood Specialization

NOTE: Student Teaching is required in an approved self-contained classroom and an approved Early Childhood Center.

Grades 1 through 9

Each student who is qualifying for teaching and/or for school services in grades 1 through 9 shall complete the following:

I. General Studies

II. Professional Education

III. Specialization

(a) The Diversified Program for teaching in a self-contained classroom

and

(b) One subject specialization for team teaching and departmental teaching in grades 1 through 9.

or

(c) The curriculum for School Librarian K-12 may be included with the elementary curriculum. Library practice in an approved elementary or secondary school is required and is an integral part of the Professional Block.

(d) The Early Childhood Specialization may be added to the elementary curriculum. Student teaching in an approved Early Childhood center is required.

Grades 1 through 12

Each Student who is qualifying for the teaching of Art, Health Education, Music and Physical Education in grades 1 through 12 shall complete the following:

I. General Studies

II. Professional Education

To include methods and student teaching of the single subject specialization at both the elementary and secondary levels.

III. Specialization

Grades 1-12

Art — one comprehensive specialization

Music — one comprehensive specialization

Health Education & Physical Education — The curriculum for teaching field grades 1-12, and one single subject specialization 7-12 or 7-9.

Grades 7 through 12

Each student who is qualifying for teaching and/or school services in grades 7 through 12 shall complete the following:

I. General Studies

II. Professional Education

III. Specialization

(a) One comprehensive field authorizing them to teach in grades 7 through 12 the related subjects which comprise the comprehensive specialization

or

(b) Two single subject specializations for grades 7 through 12

or

(c) One single subject specialization for grades 7 through 12 and one designed for grades 7 through 9, identical with the specialization required for grades 1 through 9.

or

(d) One single subject specialization for grades 7 through 12 and the teacher librarian specialization K-12. Library practice in an approved elementary or secondary school is required and is an integral part of the Professional Block.

GENERAL STUDIES REQUIREMENTS FOR THE BACHELOR OF ARTS IN EDUCATION DEGREE

		Minimum 40 Hours
I. Humanities		Minimum 17 hrs., Maximum 21 hrs.
Required:		
*English Composition English 104, 108	6	
Literature English 250, 260	6	
Speech 210	3	
Art 255 or Music 205	2	
Approved electives in humanities		
Art 255 or Music 205 (not used above)	2	
Philosophy 200	3	
II. Social Science		Minimum 12 hrs., Maximum 15 hrs.
Economics 200 or 201	3	
Geography 210	3	
History 107	3	
History 108	3	
History 111	3	
History 112	3	
Political Science 103	3	
Psychology 101	3	
Sociology 110	3	
III. Science and Mathematics		Minimum 6 hrs., Maximum 10 hrs.
Students electing science must take two courses in one discipline.		
Biology 101, 102	6	
Chemistry 101, 102	8	
Chemistry 105, 106	10	
Geology 101, 102	6	
Mathematics	6	
Physical Science 201, 202	6	
Physics 101, 102	8	
IV. Physical Education		Minimum 1 hr., Maximum 2 hrs.
Any basic activity course.		

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* Laboratory work will be required of those who do not meet certain minimum standards in English 104 and 108, and performance in the laboratory will constitute part of the grade in the course. A grade of C or above in English 108 is a requirement for graduation.

Maximums in each field apply only to courses used for the general studies requirement. Students may elect additional courses in any field.

Notice that it is possible to have met the minimum hours for General Studies requirements in each of the four areas and still not have reached the 40 hour minimum requirement.

Students changing to the A.B. Ed. Program who have credit for Speech 101 with a grade of C or better may substitute it for Speech 210.

Required Program of Professional Education for Bachelor of Arts in Education Degree

Ed. 200	Introduction to Education	2
Ed. 250	Social Foundations of American Education	2
Ed. 302	Human Growth and Development	3
Ed. 303	Educational Psychology	3

The allocation of course work in the Professional Block is as follows:

Curriculum for K-8 and 1-9

Ed. 401	Reading in the Elementary School	2
Ed. 402	Mathematics in the Elementary School	2
Ed. 403	Language Arts in the Elementary School	2
Ed. 404	Social Studies in the Elementary School	2
Ed. 420	Student Teaching Experience	6
	Student Teaching Seminars	0
Sci. 412	Science in the Elementary School	2

Curriculum for Grades 1-12

Ed. 406	Principles and Practices of the Elementary School	2
431*	Methods and Materials in (Appropriate Teaching Field)	2
Ed. 432	Evaluation in the Secondary School	2
Ed. 433	Instruction in the Secondary School	3
Ed. 421	Student Teaching Experience (Elementary)	3
Ed. 422	Student Teaching Experience (Secondary)	3
	Student Teaching Seminars	0

Curriculum for Grades 7-12

Ed. 430	Reading in the Secondary School	2
431*	Methods and Materials in (Appropriate Teaching Field)	2
Ed. 432	Evaluation in the Secondary School	2
Ed. 433	Instruction in the Secondary School	3
Ed. 450	Student Teaching Experience	6
	Student Teaching Seminars	0

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* The student who elects a comprehensive field must include 431, Methods and Materials in the comprehensive area. If he elects to complete two single subject specializations, he may choose Methods and Materials in either specialization. Should he elect to complete a single subject specialization in grades 7 through 12 and one for grades 7 through 9, he is required to complete Methods and Materials in the 7 through 12 area.

ELEMENTARY EDUCATION, GRADES 1-9

A. Required Diversified Program for self-contained classroom

*Art	353-354	Elem. Art Education	4
*Biol.	101-102	Introduction to Biology	6
*Eng.	207	Children's Literature	3
*Geog.	210	World Regional Geography	3
*Hlth.	310	School Health Programs	3
*P. E.	329	Physical Education for the Elementary School	3
*Hist.	107-108	United States History	6
*Hist.	111-112	History of Civilization	6
Hist.	302	West Virginia History	3
*Math.	110	Mathematics for Elem. Teachers I	3
*Math.	210	Mathematics for Elem. Teachers II	3
*Music	231-232	Elementary Music Ed. I, II	6
*Phys. Sci.	201-202	General Physical Science	6
Pol. Sci.	103	American Government	3

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* Courses marked with an asterisk must be completed prior to admission to the Professional Block.

B. Subject Specializations, Grades 1-9 or 7-9

Art	28 Sem. Hrs.
French	24
General Science	31
Health Education	25
Home Economics	26-27
Language Arts	24
Mathematics	13
Music, Vocal	31
Physical Education	25
Social Studies	36
Speech	22-23

C. Early Childhood Specialization

Students who are qualifying for a Professional Certificate, Grades 1-9, may wish to add the Early Childhood Specialization to their certificate.

Required Courses 20 Sem. Hrs.

Art	352	Kindergarten—Primary Art	2
Education	310	Kindergarten—Primary Organization and Curriculum	3
Education	410	Methods in Elementary Language Arts	2
Music	230	Kindergarten—Primary Music	2
Drama	338	Children's Drama	3
Drama or	339	Children's Drama Practicum	1
Drama	340	Children's Theatre Practicum	1
Speech	430	Speech Correction	3
I. E.	386	Industrial Arts for the Elementary Teacher	2
Home Ec.	330	Child Care and Development	3

Courses of Instruction
Professional Education

200. **Introduction to Education** Two hours

This course provides the student with an overview of the profession. Its primary purpose is to provide the student with the information prerequisite for formulating a professional career decision and commitment to education. It is a pre-requisite for Education 302. Not open to first semester freshmen.

250. **Foundations of American Education** Two hours

This course is an analysis of the foundations of education with special emphasis on the historical, philosophical, and sociological basis for programs of American education. Attention is focused on the emergent nature of the system. Not open to freshmen.

302. **Human Growth and Development** Three hours

This course is an analysis of human growth and development from birth through adolescence. The influence of heredity and environment on the development of personality and behavior and the implications of these factors for learning in the educational setting are stressed. Observations in the public schools are required. PR: Education 200 and 58 or more semester hours with a "C" average.

303. **Educational Psychology** Three hours

This course is a representative survey of psychology as related to education. Its major thrust is the examination of prominent learning theories as they relate to the teaching-learning act in the public school setting. Observations in the public schools are required. PR: Education 200, 250, 302, admission to teacher education, and 76 or more semester hours.

310. **Kindergarten-Primary Organization and Curriculum** Three hours

This course provides the student with an overview of the scope and sequence of early childhood organization and curriculum. Laboratory experiences with children of this age are required. PR: Education 302, 303, and consent of Division Chairman.

401. **Reading in the Elementary School** Two hours

This course is an introduction to basic reading instruction in the elementary school; study of teaching methods, materials and resources related to reading skills development. PR: Admission to the Professional Block.

402. **Mathematics in the Elementary School** Two hours

This course examines current materials and methods of instruction in elementary school mathematics with emphasis upon creative utilization of available materials and techniques. PR: Admission to the Professional Block.

403. **Language Arts in the Elementary School** Two hours

This course examines current materials and methods of instruction in the elementary school language arts area with major emphasis upon creative utilization of available materials and techniques. Attention is paid to skill development in the areas of listening, handwriting, spelling and composition. PR: Admission to the Professional Block.

404. Social Studies in the Elementary School Two hours

This course is a study of the objectives, materials, organization, and instructional techniques in the Social Studies appropriate to the elementary school program. PR: Admission to the Professional Block.

406. Principles and Practices of the Elementary School Two hours

This course is designed to provide the 1-12 student with an overview of the total elementary school program. Attention is given to the contribution of his specialization to the total program of the elementary school. PR: Admission to the Professional Block.

420. Student Teaching Experience (Elementary) Six hours

This course consists of full-time involvement in the teaching-learning act in a public elementary school setting. Students will observe, assist and teach under the supervision of a cooperating public school teacher and College personnel. PR: Admission to the Professional Block and a "C" average for all Professional Education courses.

421. Student Teaching Experience (Grades 1-12) Three hours

This course consists of full-time involvement in the teaching-learning act in a public elementary school setting. Students will observe, participate and teach under the supervision of a cooperating public school teacher and College personnel. PR: Admission to the Professional Block and a "C" average for all professional education courses.

422. Student Teaching Experience (Grades 1-12) Three hours

This course consists of full-time involvement in the teaching-learning act in a public secondary school setting. Students will observe, participate and teach under the supervision of a cooperating public school teacher and College personnel. PR: Admission to the Professional Block and a "C" average for all professional education courses.

424. Educational Technology Three hours

Through direct learning experiences, students will be able to identify the need for utilizing media, the characteristics and special needs of students to be served by them, and the bases for selecting the material most likely to achieve the planned objectives of instruction. Students will develop both hardware and software competencies in the utilization and production of the latest educational equipment and materials. They will be equipped to make the expert decisions of "when to use, what to use, with whom, for what purpose, and with what effect." PR: Consent of Division Chairman.

430. Reading in the Secondary School Two hours

This course is designed to develop understanding of the reading skills essential to the content subjects and also to provide instructional techniques for extending reading skills in those areas. PR: Admission to the Professional Block.

432. Evaluation in the Secondary School Two hours

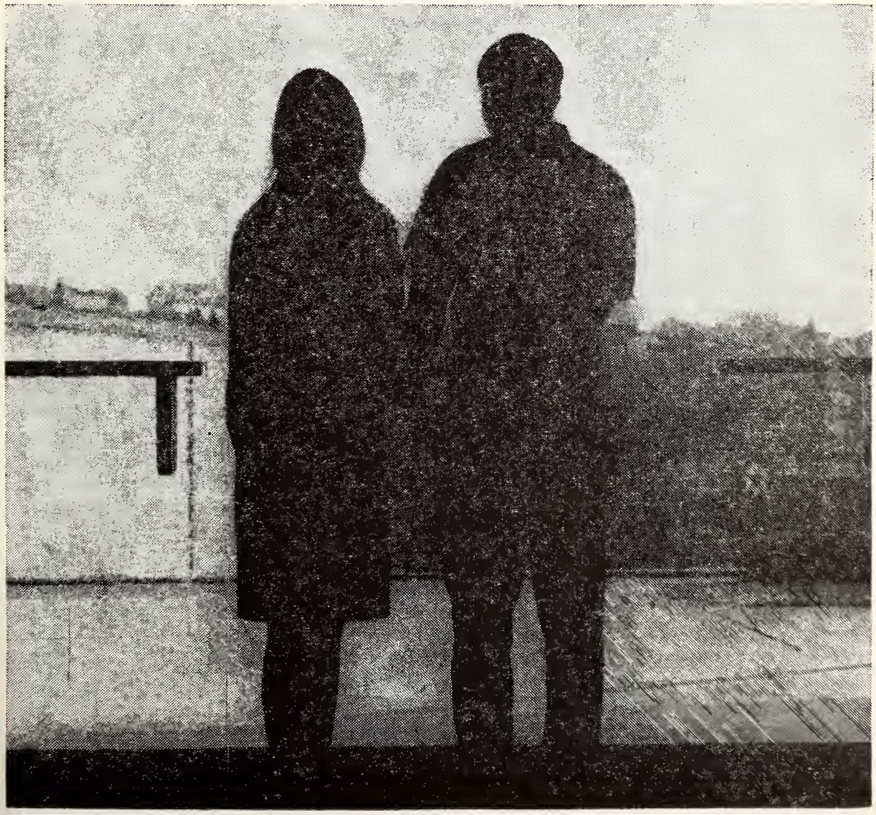
This course is designed to acquaint students with the basic principles and practices of student assessment through the use of standardized and teacher-made tests. Simple statistical treatments of both types of tests are included. PR: Admission to the Professional Block.

433. **Instruction in the Secondary School** Three hours

This course is designed to involve the student in planning and implementing effective instructional strategies, understanding principles of classroom management and control, and personalizing an approach to instruction for use in the student teaching experience. PR: Admission to the Professional Block.

450. **Student Teaching Experience (Secondary)** Six hours

This course consists of full-time involvement in the teacher-learning act in a public secondary school setting. Students will observe, assist and teach under the supervision of a cooperating public school teacher and College personnel. PR: Admission to the Professional Block and a "C" average for all professional education courses.



Special Curricula

PRE-PROFESSIONAL CURRICULA

Pre-professional work is offered in the following fields:

Dentistry
Law
Medicine
Medical Technology
Pharmacy

Since the majority of students doing such work will later enter the professional schools at West Virginia University, the courses have been prepared with the idea of meeting the requirements specified by University authorities for their own pre-professional students. Students expecting to enroll in other professional schools should procure a catalog from the school they expect to enter with advanced standing so that the course taken here will meet the requirements they need to meet. The pre-professional field advisor will assist students in making all necessary adjustments.

Pre-Medical and Pre-Dental Curriculum

Students planning to study medicine or dentistry should complete basic science courses as well as a broad range of general education courses with an average of B or better. The entrance requirements of professional schools throughout the nation vary considerably. A student should consult carefully the catalog of the professional school which he plans to attend. At West Virginia University, the School of Medicine requires a minimum of 90 semester hours of undergraduate work exclusive of Physical Education for admission. The School of Dentistry requires a minimum of 60 semester hours of undergraduate work for admission.

The following courses will meet the minimum requirements for admission to the study of medicine or dentistry at West Virginia University.

Biol.	101-102	Introduction to Biology	6
Chem.	105-106	Chemical Principles	10
Chem.	305-306	Organic Chemistry	8-10
Eng.	104	Written English	3
Eng.	108	Advanced Written English	3
Phys.	101-102	Introduction to Physics	8
Social or Behavioral Sciences			6

Pre-Pharmacy Curriculum

National requirements for the study of pharmacy require five years of study beyond high school. The curriculum requires the completion of two years of pre-pharmacy and three years of study and training in a professional school of pharmacy. Prospective pharmacy students should plan their programs in such a manner as to insure meeting requirements of the particular professional school of pharmacy to which they wish to transfer. The following two-year preparatory program is suggested.

Course	First Hrs.	Year Hrs.	Second Hrs.	Year Hrs.
Biology 101, 102	3	3		
Chemistry 105, 106; 305, 306	5	5	4	4
Economics 201, 202			3	3
English 104, 108	3	3		
Math 112, 115*	3	3		
Physics 101, 102			4	4
Electives from Arts and Humanities	3	3	3	3
Electives from Social Sciences			3	3

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* For students not required to take Math 112 and/or 115, Math 116 and 315 are strongly recommended.

Pre-Medical Technology Curriculum

Medical technology is a four-year undergraduate program. The first two years may be taken at Fairmont State College. The entrance requirements of schools of medical technology throughout the nation vary considerably. A student should consult carefully the catalog of the school which he plans to attend. Students who have completed 64 semester hours including the following courses will be eligible for admission to the third year of the medical technology program at West Virginia University.

English	104, 108	Written English	6
Biology	101, 102	Introduction to Biology	6
Chemistry	105, 106	Chemical Principles	10
Chemistry	205	Analytical Chemistry	4
Chemistry	305, 306	Organic Chemistry	8
Physics	101, 102	Introduction to Physics	8
Mathematics	112	Intermediate Mathematics I or higher	3
Physical Education			4 hours for women, 2 hours for men.

Courses such as microbiology, biochemistry, and anatomy should not be taken prior to enrollment in the professional school.

Pre-Law Curriculum

Fairmont State College offers no distinct pre-law curriculum. Law schools generally admit applicants with a bachelor's degree in any field. Students who plan to attend law school usually major in history, political science, or business administration.

TWO-YEAR CURRICULA

Fairmont State College offers several special curricula each of which require completion of 64-72 semester hours with a **quality point average of 2.0 or better.** These curricula are now available in the following areas:

- Accountancy
- Clerical
- Nursing Education
- Secretarial
- Technical Education

The purpose of these curricula is to provide desirable vocational training. These curricula are complete within themselves. The quality of the instruction offered will be identical with that in the four-year curricula.

Fairmont State College is authorized by the State Board of Regents to issue the certificate of Associate in Arts or Associate in Science upon the successful completion of any of these special two-year curricula. Application for the certificate must be made while the student is enrolled at Fairmont State College. The student may choose not to complete all the requirements of a special curriculum and, after an evaluation, may select the program leading toward a baccalaureate degree instead. **A 2.0 average for all courses attempted and for those in the area of specialization is required.**

The requirements for the Two-Year Accounting, Secretarial, and Clerical curriculums are found on pages 71 and 72.

NURSING EDUCATION

The two-year technical or semi-professional nursing program is designed to prepare beginning practitioners of nursing at the staff level. The curriculum includes a balance between nursing and non-nursing courses; learning experiences in the college and clinical laboratories make up a major portion of the nursing courses. Clinical labs may include the local hospital, clinics, schools, home for the aged and the state hospital at Weston.

An overall quality point average of 2.0 and a 2.0 quality point average in nursing is required to continue in the program. Students admitted to the program must carry at least 12 hours each semester, regardless of the amount of work completed in advance.

Graduates of the program are eligible to take the West Virginia State Board examination for licensure as a registered nurse.

It should be noted that applications for nursing exceed available space. Prospective applicants are advised to make early applications for admission. Admission is based on a number of factors: quality of high school record, ACT scores, maturity, post-school experience, etc.

Nursing Education Curriculum

First Year

First Semester	Sem. Hrs.	Second Semester	Sem. Hrs.
Eng 104, Written English	3	Eng. 108, Written English	3
Phy. Sci. 201, (General)	3	Phy. Sci. 202, (General)	3
Nsg. 101, Fundamentals of Nsg.	5	Psychology 101, (General)	3
Home Ec. 110, Nutrition	2	Nsg. 103, Medical-Surgical	8
HTH 104, Anatomy	3		
Total Hours	16	Total Hours	17

Summer Session

Nursing 203, Psychiatric Nursing — 6 Hours

Second Year

First Semester		Second Semester	
Biol. 224, Microbiology	3	Nsg. 205, Maternal & Child	8
Nsg. 202, Medical-Surgical	8	Nsg. 204, Trends in Nursing	2
Speech 101, Fund. of Speech	3	Pol. Sci. 103, National Gov't.	3
Soc. 110, Introductory Sociology	3	Elective	3
Total Hours	17	Total Hours	16

Courses of Instruction

Nursing Education

101. **Fundamentals of Nursing** Five hours

The study of nursing care common to all patients and the scientific principles underlying that care. Topics include: factors affecting health; nurses' role in relation to patients care; the use of problem-solving methods in planning care; development of basic interpersonnel and technical skills. (4 hrs. lec., 4 hrs. lab.)

103. **Medical-Surgical Nursing I** Eight hours

Study of the major health problems that affect all age groups. Emphasis is on the commonality of problems as they relate to nursing.

202. **Medical-Surgical Nursing II** Eight hours

Continuation of Medical-Surgical I.

203. **Psychiatric Nursing** Six hours

Concerned primarily with the area of functional disorders with major emphasis on interpersonal relationships, group relationships, the impact of hospital cultural patterns on patient therapy, newer methods of treatment and the community aspects of the mental health problems. (Off campus summer session).

204. **Trends in Nursing** Two hours

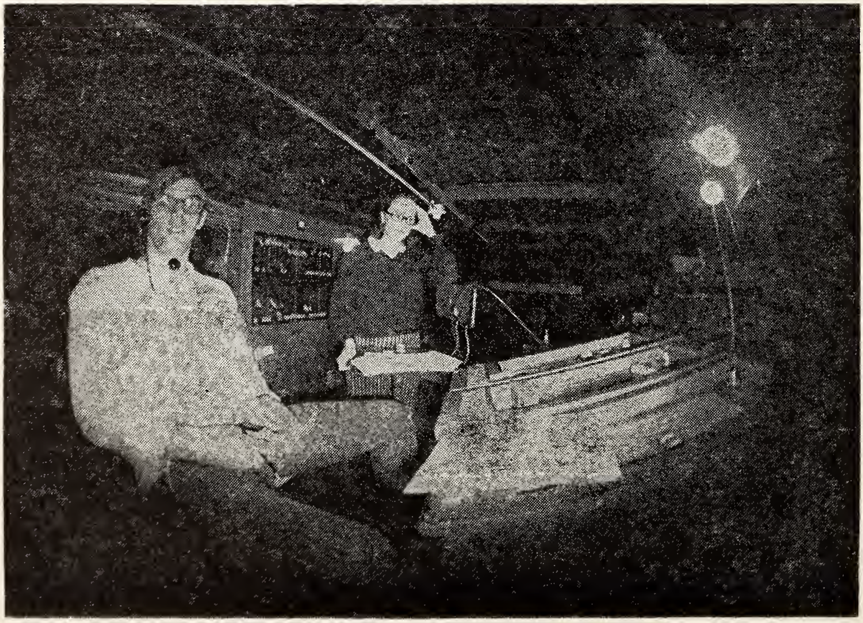
Concerned with the development of nursing as a profession and the rights and responsibilities of practioners within the profession.

205. **Maternal and Child Health Nursing** Eight hours

Family-centered approach to the care of the mother and child. Emphasis is on the normal maternity cycle, growth and development and the community agencies available for care to infants and children. Deviations from health is limited to conditions found only in the general area of maternity and in the pre-adolescent age group.

The Two-Year Technical Educational Curriculum

The requirements for the two-year Technical Education curriculum are found on page 112.



Student Services and Organizations

Fairmont State College maintains many services to all students with the objective of assisting each student to adjust to his college environment. The Office of the Dean of Student Affairs coordinates and assumes responsibility for all activities and services directly affecting the welfare of each student. Such responsibilities include: health and food services, counseling center, freshman orientation, placement service, student employment, financial aid, student insurance, housing, social organizations, student government, and bookstore services.

Student Identification Card

All students enrolled for eight or more hours of credit must have an identification (I.D.) card. This card is used as identification for and admission to school activities. The picture for the card will be taken at the time of pre-registration in the summer or in the fall for students who do not pre-register. The student pays $1 for the card, which is good for the entire period of attendance. It must be validated in the Office of Associate Dean of Students each semester.

Student Counseling Center

The Student Counseling Center operates for the purpose of providing a setting whereby students may, with the help of a professional counselor, seek realistic decisions pertaining to academic-vocational or personal-social problems. The counselors are professionals trained in clinical practice and counseling psychology. All student records are treated as confidential information and set apart from other records of the college. No information is released on or off campus without the knowledge and written consent of the student. Students utilize the services of the Center on a strictly voluntary basis.

INSTITUTIONAL TESTING PROGRAM

Several standardized comprehensive tests are essential for special groups of students.

American College Testing Program (ACT)

This test is required of all entering Freshmen and transfer students. Registration for classes is contingent upon completing this test.

National Teachers Examination (NTE)

This test is required of students graduating with a Bachelor of Arts Degree in Education. These students must take the examination during the final semester or term of their Senior year.

Graduate Record Examination (GRE)

This test is optional for students graduating with a Bachelor of Arts Degree (non-teaching) or Bachelor of Science Degree who expect to attend graduate school. This should be taken during the Senior year.

Sophomore Comprehensive Test (URE)

This test is required of students upon completing 58 hours of course work. Taking this examination is considered a part of the registration process for the semester or term following completion of the 58 hours, while failure to do so prevents the student from completing his registration for classes for that semester or term.

Senior Comprehensive Test (URE)

This test is required of ALL Seniors during their next to the last semester or term before graduation. Taking this examination is considered a part of the registration process for the Senior's final semester or term, while failure to do so prevents him from completing his registration for classes that semester.

The Sophomore and Senior Tests are scheduled in the following manner:

May	for Seniors and transfer students who expect to graduate during the summer; for Sophomores and transfer students who complete at least 58 hours during that Spring Term.
August	for Seniors and transfer students who expect to graduate in the Fall Term; for Sophomores and transfer students who complete at least 58 hours during that summer.
December	for Seniors and transfer students who expect to graduate in the Spring Term; for Sophomores and transfer students who complete at least 58 hours during that Fall Term.

HOUSING

Pence Hall is a modern dormitory providing living quarters for 132 men and a full-time resident director. It is located on the hill above the main portion of the campus and commands a splendid view of much of the campus and surrounding area. Garden Lane Apartments provide living quarters for 90 men and a full-time resident director. Located off campus but near the college, the building is arranged in apartments for four men each.

Six modern, conveniently located residence halls are available for women. On campus are two dormitories—Morrow Hall, which was built in 1922 and renovated and refurnished in 1959, and North Hall which was completed in September, 1964. Morrow Hall provides living quarters for 122 women and a full-time resident director, and North Hall provides quarters for 150 women and a full-time resident director.

Off campus are Morgan Hall and the Garden Lane Apartments which are privately owned but fully supervised by the College and conveniently located adjacent to the campus. Morgan Hall, built in 1965, provides living quarters for 84 women and a full-time resident director. The Garden Lane Apartments are separate in three buildings for women. The apartments provide living quarters for approximately 320 women. The buildings, two built in 1966 and one in 1969, are arranged in apartments for four women each. There is a full-time resident director in each of the three buildings.

All residence halls feature built-in wardrobes, study desks and book shelves. Within each residence hall there are facilities which create a homelike atmosphere.

Included are lobbies, lounging and recreational areas, vending machines, and coin-operated laundry equipment.

Fees charged for residence in campus dormitories are listed under Residence Hall expenses.

Standards for Residence Hall Life

1. All unmarried students not living at home are required to live in college-administered residence halls. If no vacancy in college-administered halls exists, students must report the address of their living quarters to the Office of Associate Dean of Students along with a written approval statement of the parent or guardian.
2. All residence hall assignments are made for the entire academic year; and a student may not move or transfer from any residence hall, state or privately owned, except to graduate, to withdraw for the remaining part of the academic year, or to marry and live with spouse.
3. Applicants for room reservations must pay an $80 deposit at the time of application; this fee will be credited to the applicant's room rent account. Notice of cancellation must be received by the Office of Associate Dean of Students by May 1 or the $80 deposit is forfeited. A $20 breakage fee shall be deposited at the time of registration; this fee, less any damages, will be returned at the time of withdrawal from the residence.
4. All applicants for rooms and their parents or guardians are responsible for being familiar with the requirements for dress, the purchase of meal tickets, the code of behavior, and all other regulations that are listed and explained in residence hall handbooks.
5. The College reserves the right to limit to a certain class (freshmen) the dormitory rooms under its control.
6. The College reserves the right to limit the number of out-of-state students accepted to live in the residence halls under the control of the College.
7. Students who live in Pence, Morrow, or North Hall must buy a meal ticket for the Dining Hall. No evening meal will be served in the Dining Hall on Sunday.
8. Students who live in Pence, Morrow, or North Hall must subscribe to a linen service that supplies fresh bed linens and towels weekly.
9. A student who is absent from a residence hall for seven or more consecutive days will not be charged for meals, provided that the Food Service Director is notified in advance. No deduction in room rent, however, will be allowed regardless of the cause of absence. There is no refund of room rent to students changing residence during a term or semester, or to students withdrawing during a term or semester.
10. Room rental must be paid in full for a semester on or before registration day, and a meal ticket for half-semester or semester must be paid for on or before registration day.
11. Residence halls will be closed during the spring recess and during the Thanksgiving and Christmas vacations.
12. In cases where a preponderance of circumstantial evidence of stealing exists,

the student's room will be searched in accordance with the **Student Personnel Policies** handbook.

13. Any residence hall student who is suspended or expelled from Fairmont State College for disciplinary reasons or any student who is given a choice of withdrawing from the College or appearing before the Hearing Board and he chooses to withdraw voluntarily instead of appearing before the Hearing Board shall lose all rights to a refund of any tuition, fees, residence hall rent, or other payment made to the College.

Placement Service

A job placement service is available in the Office of Associate Dean of Students to all persons graduating from the college and to those who receive teaching certificates through the College's recommendation. All seniors are urged to register prior to graduation. Alumni who hold degrees or certificates are welcome to register. Assistance in placement in all fields of employment is offered.

Freshmen Orientation

Freshmen arrive on the campus in advance of other students. It is at this time that freshmen become acquainted with the campus, buildings, the academic program, various student activities, and student welfare in general. After scheduling classes, they become formally registered for their first semester of college work. Throughout the orientation period, freshmen are assisted and guided by trained student counselors who are sympathetic to the individual problems of students.

General Regulations

In matters concerning student rights, responsibilities, and social conduct, special reference should be made to the published **Student Personnel Policies.**

Student Automobile Regulations

Because of the large number of cars used by students, traffic on the college campus is seriously congested. In the interest of safety and service, rigid regulations have become necessary. All parking is limited to defined areas, and restricted parking is established in certain areas.

All motor vehicles operated by students must be registered and properly identified by campus registration stickers.

Freshmen living in campus dormitories are not permitted to bring cars to the campus. All students living off campus, either at home or in college approved housing, and within one-half mile of the campus will not be permitted to park on campus during school hours.

Failure to comply with motor traffic regulations will result in an assessment of a service fee and the loss of parking privileges. In certain cases, parking illegally will result in the vehicle being towed away. Persistent violators and those who refuse to comply with requests on notices will be subject to having the car immobilized or to temporary or even final suspension from classes. Each student using a vehicle on the campus is expected to be familiar with the traffic regulations.

Specific reference should be made to the published handbook **Parking Regulations.**

Health Service

A physician and two registered nurses are available to examine and advise students in matters pertaining to their health. On school days from 8 a.m. until 7 p.m., a nurse is available in the college clinic in the Colebank Gymnasium for first aid and for the treatment of minor ailments of students and faculty. The college physician has regular campus office hours.

Group student hospital insurance is available to all full-time students at a very reasonable rate. Each prospective student is mailed information pertaining to this insurance prior to the opening of school in the fall.

Food Service

Buffet style breakfast, lunch, and dinner are served daily in the College Dining Hall with the exception of an evening meal on Sunday. Menus of a variety of foods are carefully planned to provide nutritive diets with an attractive service at a reasonable price.

Student Center Building

The Student Center is a modern, spacious building centrally located on the campus.

On the ground floor, a large area has been provided for the Bookstore and recreational rooms. The recreational rooms are available to students for playing pool, ping pong, chess, checkers and watching television. The campus snack bar is located on the second floor, providing fountain service, soft drinks, coffee, cigarettes and confections. Also on this floor are the Center business offices for staff members and three study areas for the students. A check cashing service is available from 8 a.m. until noon and 1 p.m. until 4 p.m. for students only. The top floor contains the ballroom with facilities for events such as teas and receptions. All facilities of the Student Center are available to student groups for meetings, parties, dances and other social affairs.

Bookstore

The Bookstore is located on the ground floor of the Student Center. All books, stationery, school supplies and various equipment that students need for classes may be purchased here. Also found here are items such as greeting cards, college jewelry, sweat shirts, jackets and various other items commonly sought on every campus.

Subscriptions for many magazines and a daily photo service are available. Stamps may be purchased and packaged weighed for mailing. A printing service for napkins and match covers is available to college organizations.

LIBRARY

The library is supportive of the academic programs of the College and therefore acquires and processes a variety of printed materials which relate to these programs. Books, journals, etc. pertaining to all areas of the curriculum are available. Moreover, materials not owned by the library may be secured through a network of interlibrary loan.

The library presently contains some 112,000 volumes and subscribes to over 500 periodicals. A number of books and journals are maintained in microform for which the library provides appropriate reading facilities. As a selective depository for U.S. government documents, the library houses a collection of 6,000 government publications. A general reference collection including the usual bibliographies, indexes, abstracts, encyclopedias, dictionaries, yearbooks, almanacs, handbooks, manuals, directories, biographical and geographical sources is maintained by the library. All library materials are shelved in open stacks and are directly accessible to student and faculty.

A new addition amounting to 46,000 square feet is underway with construction starting in the spring of 1972. This added space will increase capacity to 250,000 volumes and the library will be able to accomodate 900 readers.

The Learning Resource Center occupies the first floor of the College Library and is responsible for coordinating the application and use of educational technology for the campus. Specialized facilities for the production of films, slides, transparencies and graphic materials as well as recording and television studios are a part of the Center. A large educational film rental library and several thousand filmstrips, recordings, slides and transparencies are also circulated through the facility.

Student Government Organizations

The Student Government Organization is composed of all students regularly enrolled in Fairmont State College. All of its officers are students and all business is conducted by them. Through this organization student programs and many other activities are undertaken. A student activity fee is collected from all students. This fee covers the cost of student activities and entitles the student to attend all athletic contests, major dramatic productions, and other special programs.

Student Council

The Student Council is the executive board of the student government organization. It consists of five student body officers, all class presidents, vice presidents, secretary-treasurers, and sergeants-at-arms, two members elected by the interfraternity-panhellenic council, five members elected by the non-fraternity group, one woman elected by the Associated Women Students, and one faculty advisor appointed by the President of the College.

One of the principal assignments of the Student Council is to meet annually to determine the allocation of the student activity funds among the various campus activities and organizations. The budgets prepared are then published so that all students may know for what purposes their fees are being used.

Student and Faculty Social Cabinet

The Student-Faculty Social Cabinet is composed of representatives of students and faculty under the chairmanship of the vice president of the Student Council. The campus social program for the school year is arranged through this cabinet.

Interfraternity-Panhellenic Council

The Interfraternity-Panhellenic Council is an organization of all Greek letter social organizations. It governs the joint activities of the social fraternities and sororities.

Class Organizations

Each academic class has assigned activities and operates through its officers and the student government.

CLUBS AND HONOR SOCIETIES

Fairmont State College students have organized a number of clubs and honorary organizations for the promotion of interest in various subject matter fields, for the recognition of outstanding achievement in various campus activities, and for general social purposes. A list of the currently active organizations of this character follows:

Clubs

American Chemical Society
  (FSC Chapter)
American Home Economics Association
  (FSC Chapter)
Art League
Associated Women Students
Behavioral Science Club
Black Student Union
Engineering Technology Society
Future Teachers of America
Independents
Industrial Arts College Club
Interfraternity Panhellenic Council
International Relations Club
Inter-Varsity Christian Fellowship
Lettermen's Club
Masquers (Drama)
Men's Interfraternity Council
Music Educators National Conference
Newman Club
Student Education Association
Student Nurses Association
Veterans' Association
Wesley Foundation
Women's Panhellenic Council
Young Democrats
Young Republicans

Honoraries

Alpha Alpha Alpha (Business)
Alpha Phi Gamma (Journalism)
Alpha Psi Omega (Drama)
Beta Beta Beta (Biology)
Blazers (Senior Women)
Delta Sigma Rho —
  Tau Kappa Alpha (Forensics)
Epsilon Pi Tau (Industrial Arts)
Flames (Junior Women)
Kappa Delta Pi (Education)
Kappa Pi (Art)
Lambda Delta Lambda
  (Physical Science)
Phi Epsilon Chi
  (Women's Physical Education)
Sigma Alpha Iota (Women's Music)
Sigma Tau Delta (English)

Social Organizations

Fairmont State College students have organized and maintained a number of social fraternities and sororities. These organizations provide a medium for social activities and social training.

They are regulated by the Men's and Women's Panhellenic Councils and the Interfraternity-Panhellenic Council which strive toward high standards of scholarship and leadership among the groups and toward developing a good college spirit.

These organizations are listed below:

Fraternities
Sigma Pi (National)
Sigma Tau Gamma (National)
Tau Beta Iota
Tau Kappa Epsilon (National)
Theta Xi (National)

Sororities
Alpha Xi Delta (National)
Delta Zeta (National)
Phi Mu (National)
Sigma Kappa (National)
Sigma Sigma Sigma (National)

Religious Interests

Fairmont State College maintains a close relationship with the religious organizations of the city. During Freshman Orientation ministers of local churches of all faiths are introduced. Announcements of services and special programs are posted on a bulletin board in the administration building.

Organized groups on campus are The Newman Center for Roman Catholics, the Wesley Foundation sponsored by the Methodist Church, and the Intervarsity Christian Fellowship. Services of ministers are available to the campus at all times.

Publications

The Columns is the student newspaper published semi-monthly throughout the regular college year with the exception of examination and vacation periods. The Publications Board, representing students and faculty, approves the selection of staff members from a list presented to the Board by the faculty advisor. Consideration is given to those students who have done acceptable work in journalism or who have had practical experience on publications. **The Columns** is named for the eight stately columns at the front of the Administration Building. It is financed by student fees and advertising.

The Mound is published annually by the students. The administrative officers of the staff are approved by the Publications Board from a list presented to the Board by the faculty advisor. All phases of college life are depicted in the annual, largely by pictures. It was named from an historic spot on a former campus. It is financed by student fees and advertising.

The Student Handbook is compiled annually under the direction of the Student Council. It contains valuable information about Fairmont State College and its varied student activities. It is of real service to new students.

The Student Bulletin is posted on the bulletin boards located prominently in each building. This bulletin carries announcements of all student activities. Material for the **Student Bulletin** should be left in room 233A by noon Thursday. Bulletins are posted Friday morning for the following week. Students should consult the bulletin boards daily for important announcements.

Music Organizations

The Fairmont State College Marching and Concert Band is a uniformed band which presents concerts in Fairmont and other communities. This organization is open to both men and women.

The musical organizations of Fairmont State College—the Chorus and the Collegiates—provide opportunities for students interested in group singing. These groups present programs at the College assemblies, in neighboring communities, and on the radio. They also give annual public concerts. The Chorus is open to all students, but the "Collegiates" is composed of selected members of the College chorus. Operas are produced annually. The College-Community Symphony Orchestra is open to all students and members of the community.

Students may participate in college ensemble programs including the Stage Band and String, Brass, Woodwind, and Vocal Advanced Ensembles.

FORENSICS

(Public Speaking and Debate Activities)

Traditionally Fairmont State College offers a varied program for all students interested in public speaking and debate. Participation in all of these activities is open to any student at Fairmont State College.

Intercollegiate Debate

The Intercollegiate Debate Squad annually participates in 15 to 25 intercollegiate debate tournaments at colleges and universities throughout the Eastern United States. The debate squad also sponsors and participates in public exhibition debates, television and radio presentations and conducts the annual Fall Debate Workshop of the West Virginia Intercollegiate Speech Association.

Public Speaking

Students may participate in intercollegiate contests in oratory, extemporaneous speaking, persuasive speaking, student congress, and group discussion.

THEATRE

Fairmont State College traditionally offers an active theatre program for both the theatre-goer and participants.

Masquers

The Masquers, since 1925 the student theatrical production organization, present four major plays of varied styles and periods in Wallman Hall during the fall and spring semesters. The plays are directed, designed, and supervised by the Speech and Drama Department faculty. Acting roles and positions on production crews are open to the student body on a voluntary or course credit basis. Performances are open to the public. Membership in the Masquers club is open to the student body and is earned through participation with the college theatrical productions.

Summer Theatre

Since 1960 the Masquers Town and Gown Players have presented four major plays during the summer semesters. Students enrolled in Summer Theatre (Drama 321-322) and Children's Theatre (Drama 340) work along with members of the Resident Company (selected experienced students receiving a grant for fulltime technical work and acting) and interested members of the community to bring a season of light summer theatre fare (comedies, musicals, and children's plays) to Northern West Virginia theatre-goers and to provide a cultural, recreational, and educational outlet for all participants. The plays are directed, designed, and supervised by the Speech and Drama Department faculty and guest directors. Acting roles and positions on production crews are open to the public as well as the students, faculty and staff at Fairmont State College.

Masquers, Jr.

At least one play during the fall or spring semesters is presented, on tour or on campus, for a children's audience. It is produced in conjunction with Drama 340, Children's Theatre Practicum, but participation through acting roles and production crews is often open to the student body.

Studio Theatre

Student directed and faculty directed one-acts are presented in the studio theatre (Room 314 FA). Acting roles and positions on production crews are open to the student body.

Honorary

Here in 1925 under the guidance of Dr. Paul F. Opp, Alpha Psi Omega, the national collegiate drama honorary had its beginning. Also here and under the guidance of Paul F. Opp, Delta Psi Omega, the junior college drama honorary, and the Thespians, the high school drama society, had their beginnings. Membership in the Alpha Cast of Alpha Psi Omega is earned through participation in collegiate productions. Since Spring 1969 the Alpha Cast of Alpha Psi Omega has sponsored the Annual Alpha Awards for outstanding performances during the fall and spring Masquers and studio theatre productions.

Reader's Theatre

The Fairmont State College Readers provide reader's theatre presentations at least once a semester in conjunction with Drama 221-222,223. These performances are open to the public. Also, an active program in intercollegiate oral interpretation is offered.

CONTESTS

The Frank C. Haymond Constitutional Essay Contest

In order to encourage a greater interest in and appreciation of the United States Constitution, Judge Frank C. Haymond has established annual awards of $50, $25, and $10 for the three best papers submitted on the general theme "The Constitution," by regularly enrolled students. Papers are required to be from one thousand to thirty five hundred words in length and are due on or before April 15 each year. Interested students should apply to the chairman of the Division of Social Science.

M. M. Neely Oratory Contest

Interested students may compete with original oratory for cash awards in the annual M. M. Neely Oratory Contest held in May.

RADIO AND TELEVISION

WFSC

WFSC, the Fairmont State College FM Education Radio Station, is staffed and operated by the students and faculty and transmits educational programs throughout the academic school year and summer sessions. Any Fairmont State College student may, through audition and interview, participate in one or more of the numerous station positions. WFSC serves a listening audience in some sixteen counties of North Central West Virginia.

Campus Highlights

"Campus Highlights," a bi-monthly radio program, is produced by the Radio Department of the Speech and Drama Department. It has been a regular feature of Radio Station WMMN since 1929. These programs are for the most part student productions. Any student at Fairmont State College may take part in the "Campus Highlights" series.

In addition to "Campus Highlights" and WFSC, several broadcast courses are offered which allow the student to become familiar with all major aspects of the broadcast industry. Complete audio and video tape facilities are available in a "learning laboratory" for those students involved in any of the various radio-television classes. For further information contact the Chairman of the Speech and Drama Department in Room 309 FA.

Intramural Sports

A regular program of intramural sports is sponsored for the benefit of all students. Teams, contests, and various activities are organized for competitive play among the various groups and organizations. The pool is open for intramural and recreational swimming at certain times. Such facilities as the conditioning room are open for individual and group participation. This is under the supervision of staff members who direct the overall program. Individual participation with selected equipment is offered for those interested and concerned with their own development, and not with team participation.

The intramural program includes the following activities: flag football, tennis, volleyball, basketball, wrestling, bowling, golf, softball, horseshoes, outdoor track, badminton, swimming, archery and foul throwing.

Intercollegiate Sports

Fairmont State College sponsors an intercollegiate athletic program in football, basketball, baseball, cross country, golf, tennis, soccer, swimming, bowling, track, and wrestling. There are fine indoor and outdoor facilities and equipment for physical education and recreation. Every young man in college is free to participate in any one or more of the intercollegiate sports and in all recreational activities. The intercollegiate athletic program for women includes tennis, basketball, hockey, volleyball, and softball.

Athletic Policy

The program of intercollegiate sports at Fairmont State College is supervised by a director of athletics. He is assisted in the planning of the program by an athletic committee of the general faculty.

The general objectives of the intercollegiate sports program at Fairmont State College are to teach young men and women the values of sportsmanship, good physical conditioning, and the disciplinary and social values of organized team play. Specific values include the training afforded prospective coaches and physical education instructors through participation, and the possible acquisition, to some extent, of experiences and skills which may furnish recreational outlets following graduation.

In pursuance of the policies recommended by the North Central Association, the following minimum standards governing intercollegiate athletics are maintained:

1. The ultimate responsibility for the conduct of the athletic program rests with the President.

2. The members of the coaching staff are regular members of the faculty and have the same professional status, qualifications, salaries, and tenure as other faculty members.

3. Students participating in athletics are admitted by the Director of Admissions on the same basis as other students. Athletes are required to maintain the same academic standards as non-athletes.

4. The award of scholarships, student loans, and student employment to an athlete is made through the same agency of the College and on the same basis as grants of aid to all other students. All employed students are required to give full and honest work for pay received.

5. All athletic funds are handled by the Business Manager of the College. An audit of the receipts and disbursements of these funds is made annually by the auditors of the West Virginia Tax Commissioner for the benefit of the West Virginia Board of Regents and other interested parties.

6. The College does not bring prospective athletes to the campus for tryouts, nor does it pay the expenses involved in vollege visitations by such persons.

7. An effort is made to compete only with colleges having similar educational and athletic policies.

8. Fairmont State College is a member of the West Virginia Intercollegiate Athletic Conference and the National Association of Intercollegiate Athletics, and athletic participation is regulated and controlled by the eligibility rules of the Conference. Copies of these rules are on file in the Office of the Director of Athletics.

Awards

At Recognition Day exercises, held near the close of each college year, awards are granted to students for outstanding achievements in various campus activities. Among these awards are the following:

For outstanding achievements in scholarship, leadership, service, and character, gold keys are presented to the Outstanding Seniors, selected by a faculty-student committee; certificates to the seniors elected to Who's Who Among Students in American Colleges and Universities; American Legion Medals to a senior man and senior woman; MENC plaques presented to outstanding senior and freshman music majors.

Medals and other prizes are presented to outstanding students in business administration, science, secretarial practices; cash awards by the Fairmont Woman's Club to the best freshman writer, to the most worthy senior girl by the American Association of University Women's Club through their Edna Earl Lowe Memorial fund, the Kappa Delta Pi—SEA award for the outstanding graduating seniors in elementary and secondary education. The Blazers, senior women's honor society, and Flames, junior women's honor society, announce at this time the names of the women of the junior class and sophomore class elected to these organizations.

Athletic awards are usually made during special sessions at athletic contests or at the annual athletic banquet.

Alumni

The Alumni Association of Fairmont State College is the official organization of all graduates and former students of the "old" Fairmont State Normal School, Fairmont State Teachers College, and Fairmont State College.

The history of the Alumni Assication goes back almost to the founding of the institution. A meeting was held on Commencement Day, June 27, 1873, at which time the twenty-nine graduates formed the Association.

Events of special interest to alumni include the Annual Homecoming celebration during the fall semester. Festivities begin on Friday evening and continue through Saturday and include a parade, dinner banquet, business session and dance. During commencement weekend the class of 50 years ago return to the campus for a day's visit and dinner as guests of the Alumni Association and the college. This group of alumni who graduated 50 years ago or more automatically become members of the Emeritus Club. The unit was formed in 1963.

Information concerning the Alumni Association may be had by writing to the Alumni Secretary, Fairmont State College, Fairmont, West Virginia.

Regional Council for International Education (RCIE)

Fairmont State College is a member of the Regional Council for International Education, an association of colleges and universities in Pennsylvania, West Virginia and Ohio. Formed in 1959 by educators seeking a new approach to international education, the Regional Council now has over 30 members and is active in five areas: Faculty Affairs, Foreign Student Affairs, Research, Publications, and Study Abroad. An Overseas Study Center was opened in Basel, Switzerland, in 1965, and a new Center was opened in Verona, Italy, in 1970. Additional Centers are planned.

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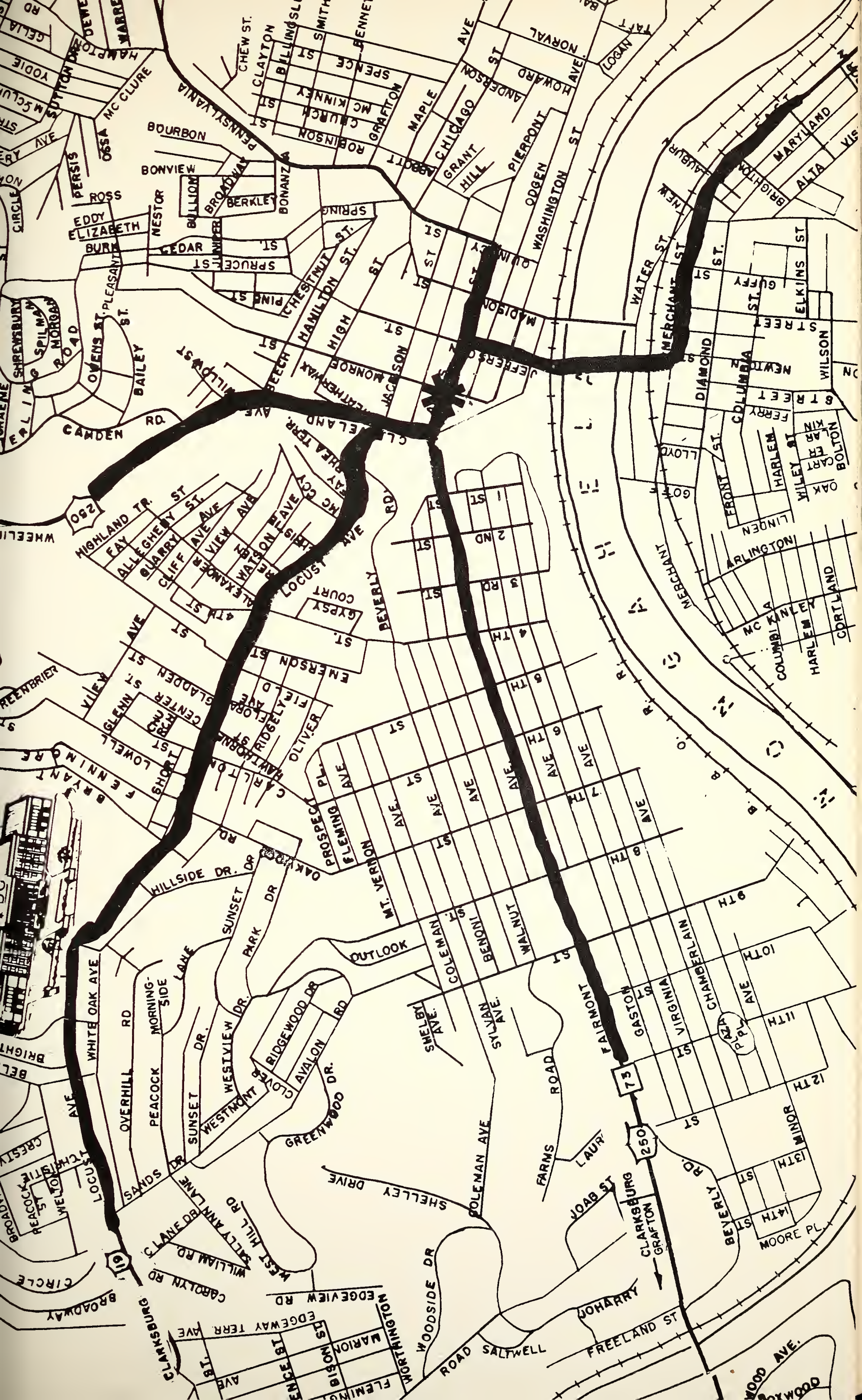

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JACKSON ST.
MONROE
FAIRVIEW
BEECH
WILLOW ST
CLEVELAND AVE
CAMDEN RD.
OWENS ST.
BAILEY ST.
SHREWSBURY
SPILMAN
MORGAN
ROAD
STERLING
CIRCLE
HAMPTON
DEWEY
WARREN
GELIA
YODIE
MCCLURE
SUTTON DR.
OSSA
PERSIS
MC CLURE
WHEELING
HIGHLAND TR.
FAY
ALLEGHENY ST.
QUARRY ST.
CLIFF AVE
VIEW AVE
ALEXANDER
WATSON AVE
LOCUST AVE
GYPSY COURT
BEVERLY RD.
EMERSON ST
FIELD
RIDGELY AVE
OLIVER
FLORAL AVE
GLADDEN ST
CENTER ST.
CHURCH
GLENN ST.
LOWELL
SHORT ST
HAWTHORNE ST
CARLTON
FENNIMORE
BRYANT
GREENBRIER
VIEW AVE
PROSPECT PL.
FLEMING AVE
MT. VERNON AVE.
HILLSIDE DR.
OAKWOOD RD.
SUNSET
PARK DR
OUTLOOK
COLEMAN ST
BENONI AVE
WALNUT AVE
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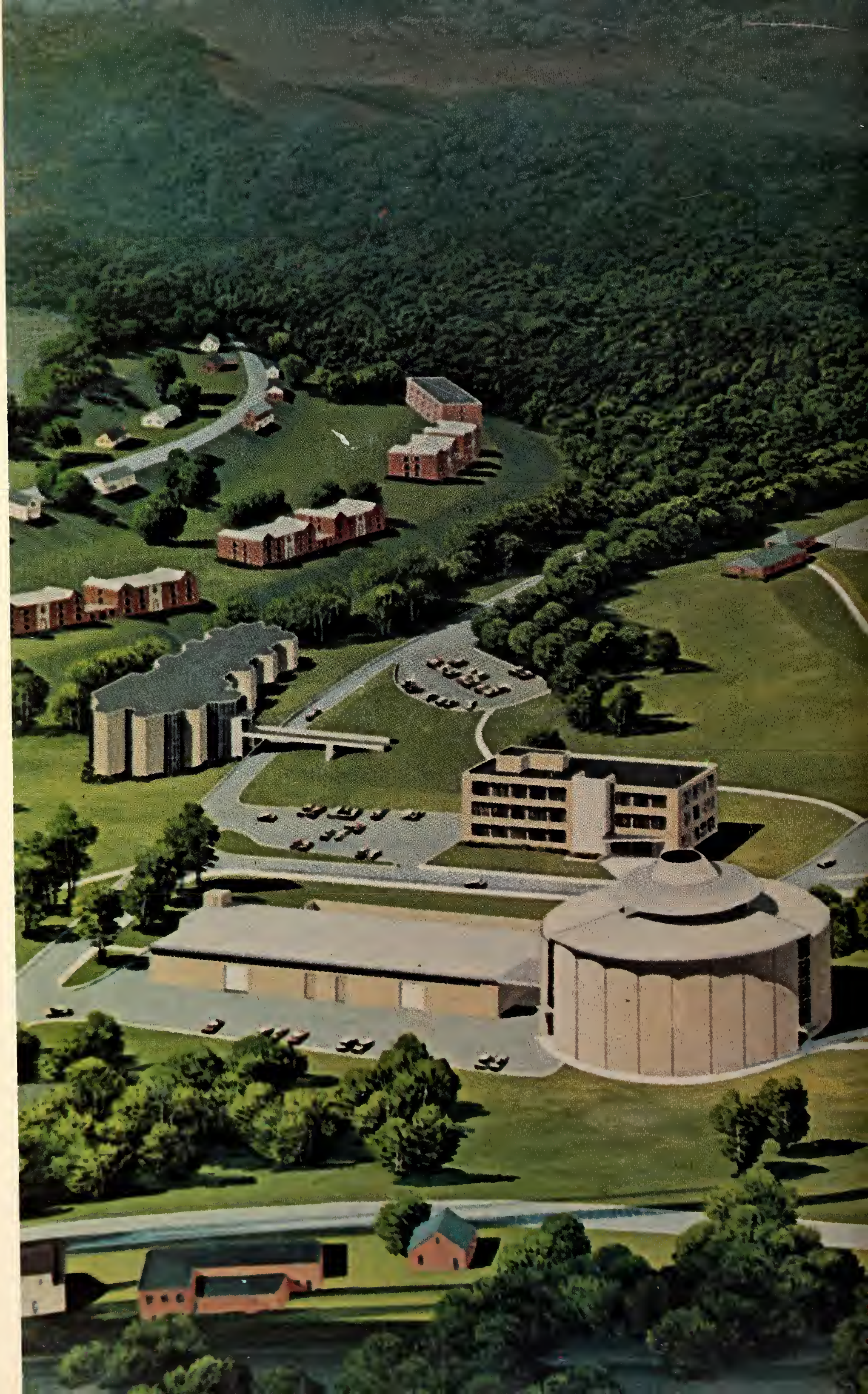
13TH ST
14TH ST
FAIRMONT AVE
GASTON AVE
VIRGINIA AVE
CHAMBERLAIN AVE
PLAZA PL
MINOR AVE
BEVERLY RD.
MOORE PL.
SHELBY AVE.
SYLVAN AVE.
COLEMAN AVE
ROAD
FARMS
LAUREL
JOAB ST
WHITE OAK AVE
OVERHILL RD
PEACOCK
MORNINGSIDE LANE
SUNSET DR.
WESTVIEW DR.
WESTMONT
CLOVER
RIDGEWOOD DR
AVALON RD
GREENWOOD DR.
SANDS DR
SALLY ANN LANE
LANE DR
WEST HILL RD
WILLIAM RD.
CAROLYN RD
SHELLEY DRIVE
WOODSIDE DR
EDGEVIEW RD
EDGEWAY TERR. AVE
BROADWAY
CIRCLE
BRIGHTON
BELL
CRESTVIEW
CHRISTIE ST
PEACOCK ST
WELTON
LOCUST AVE
SPENCE ST
BISON ST
MARION
WORTHINGTON
FLEMING
ROAD SALTWELL
FREELAND ST
JOHARRY
WOOD AVE.
BOXWOOD
WATER ST.
MERCHANT ST
AUBURN
NEW
EAST
MARYLAND
BRIGHTON
ALTA
VISTA
GUFFY ST
ELKINS ST
STREET
WILSON
NEWTON
DIAMOND
COLUMBIA
FERRY STREET
BOLTON
OAK
MC CARTER
KINLAR
WILEY ST
HARLEM
FRONT ST.
LLOYD
GOFF
LINDEN
ARLINGTON
MERCHANT
MC KINLEY
COLUMBIA
HARLEM
CORTLAND
B. & O. R. R.
MONONGAHELA
RIVER



1974-76 Bulletin
Fairmont State College

Correspondence Directory

The Post Office address of the College is:

Fairmont State College
Fairmont, West Virginia 26554
Phone (304) 363-4000

Correspondence should be addressed as indicated below:

Admissions For everything concerned with the admission of students, including requests for the college catalog and other publications, academic credits, and information about fees	Registrar and Director of Admissions
Administrative and General College Policy	President
The Faculty, Curricula, Instruction, Summer Session	Dean of Academic Affairs
Community College and Continuing Education	Community College
Guidance and Counseling	Counseling Center
Housing	Associate Dean of Student Affairs — Housing
Scholarships, Loan Information, and Student Employment	Financial Aid Office
College Fees	Business Manager
Publicity, Alumni Activities	Director of Public Relations and Alumni Secretary

Visitors

Visitors are always welcome at Fairmont State College. An informal tour of the campus may be obtained for those persons, especially for classes of high school students, who will notify the College in advance of their coming. Information may be obtained at the Office of Student Affairs in the Administration Building.

FAIRMONT STATE COLLEGE

Vol. 99 April 1974 No. 1

GENERAL CATALOG
1974-1976

Statement of Catalog Policy

It is the responsibility of students to be aware of official college policies and meet all requirements in the catalog. The catalog should be studied and retained. This catalog provides the best possible current information on practices and intentions of the College. While no major changes are anticipated the College reserves the right to change provisions or requirements at any time. Catalog revisions and supplements are issued periodically and may be obtained from the Registrar. Each student should keep informed of curren degree, curriculum, and course requirements. The academic advisors and appropriate administrative offices of the College may be consulted for further information.

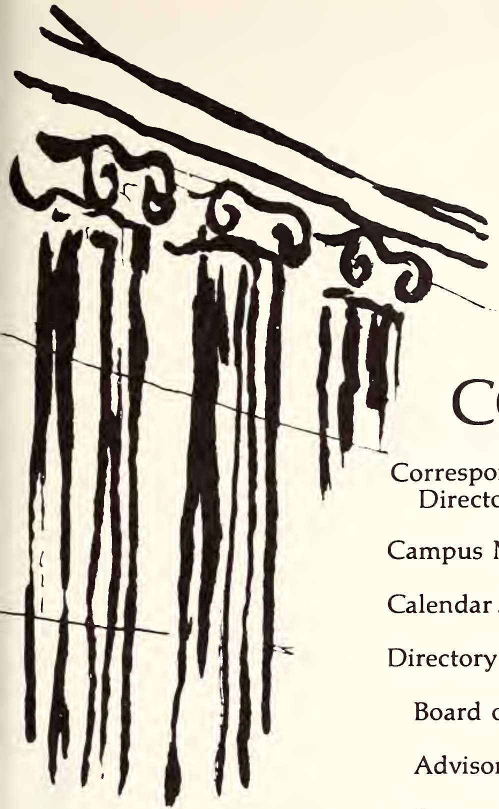
A student who enrolls at Fairmont State College shall follow the provisions of the catalog in use at the time of his admission or any subsequen catalog, providing he adopts all of the subsequent catalog. Transfer students will use the catalog current at the time of their admission to the previous institution, provided that the graduation date would be not more than seven years from the date of first enrollment in college.

Any student who has interrupted his schooling for more than one yea will become subject to the provisions of the current catalog. An exception will be made if the interruption is caused by service in the armed forces.

All students seeking readmission as a result of academic suspension will be enrolled under the current catalog.

Policy on Equal Opportunity

Fairmont State College adheres in practice to the principles of **equal opportunity** and **affirmative action** which require that there shall be no differences in the treatment of persons because of race, religion, color, sex, age, o national origin, and that access to facilities shall be available to all. Thi principle is applicable in the admission of students, all financial assistance, an in their academic pursuits. It also is applicable in college-owned housing, i food services, extracurricular activities and all other student services. Thes principles are also a state policy adhered to by the College in the employmen and promotion of faculty and staff and in the employment of students.



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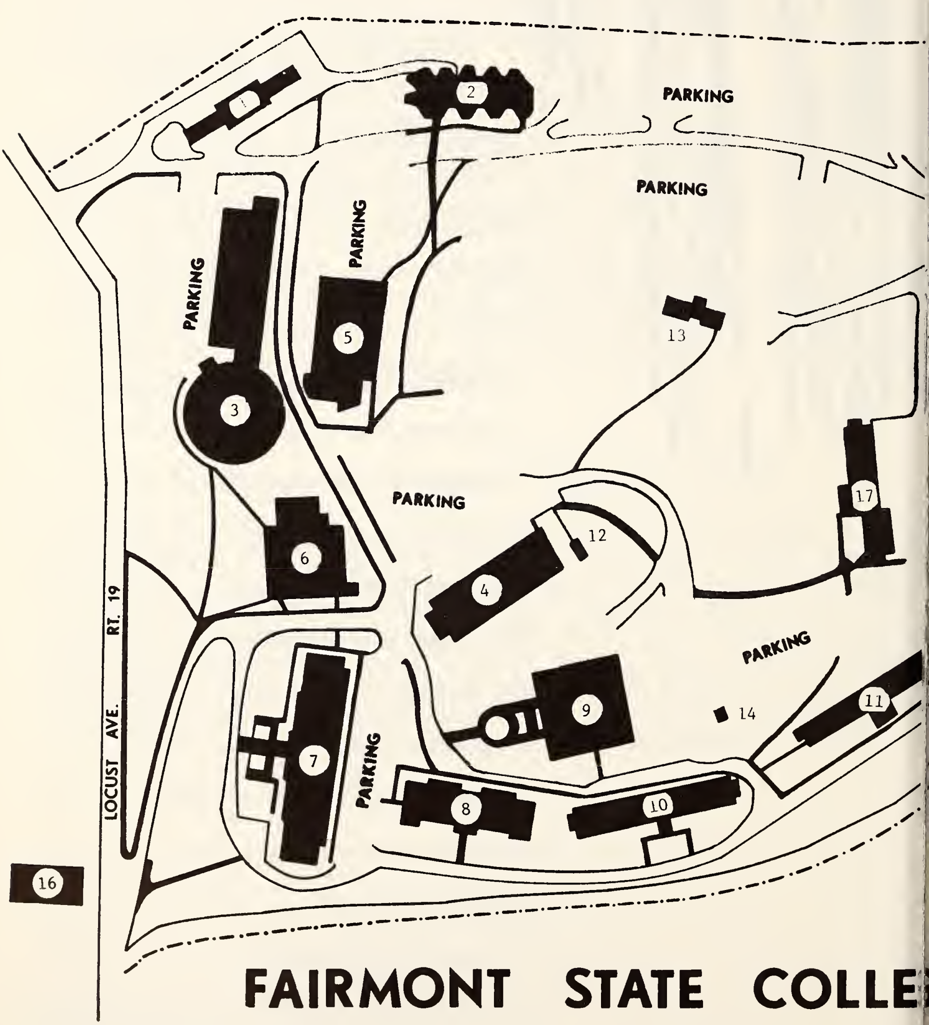
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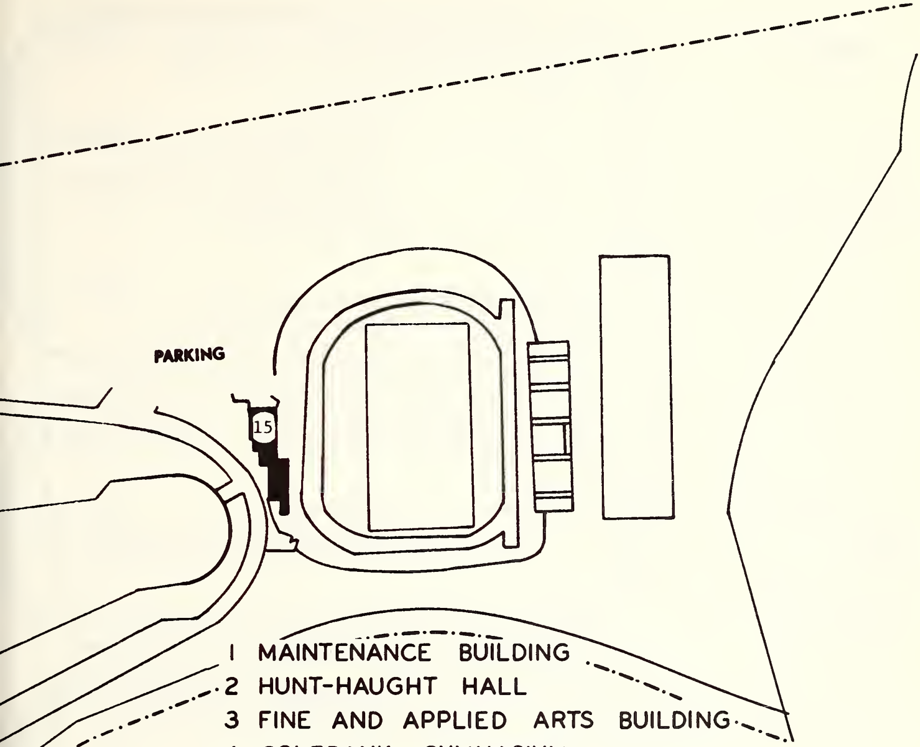
FAIRMONT STATE COLLE



1 MAINTENANCE BUILDING
2 HUNT-HAUGHT HALL
3 FINE AND APPLIED ARTS BUILDING
4 COLEBANK GYMNASIUM
5 LIBRARY
6 STUDENT CENTER
7 ADMINISTRATION BUILDING
8 CLASSROOM BUILDING
9 CAFETERIA
10 MORROW HALL
11 NORTH HALL
12 COUNSELING CENTER
13 PRESIDENT'S HOME
14 ONE-ROOM SCHOOL MUSEUM
15 FIELD HOUSE
16 MORGAN HALL
17 PENCE HALL

FAIRMONT STATE COLLEGE

1974

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JUNE						1
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FIRST SUMMER TERM 1974

June	
10 Mon.	Registration
11 Tues.	Classes begin; last day for registration and/or to add classes
14 Fri.	Last day for making application for summer graduation
15 Sat.	Classes in session
July	
4-5 Thurs.-Fri.	Classes not in session
12 Fri.	First summer session ends

JULY

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SECOND SUMMER TERM 1974

July	
15 Mon.	Registration
16 Tues.	Classes begin; last day for registration and/or to add classes
August	
16 Fri.	Second Summer session ends

SEPTEMBER

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FALL SEMESTER 1974

August	
25 Sun.	Dormitories open 1 p.m.
26-27 Mon.-Tues.	Orientation
28 Wed.	Registration
29 Thurs.	Classes begin
30 Fri.	Last day for registration and/or to add classes
September	
2 Monday	Labor Day — Classes not in Session
7 Sat.	Institutional Testing
October	
18 Fri.	Mid-Semester reports due; last day for making application for December graduation
November	
27 Wed.	Thanksgiving recess begins 5 p.m.
December	
2 Mon.	Classes resume 8 a.m.
7 Sat.	Institutional Testing
16-20 Mon.-Fri.	Final Examinations

CALENDAR

SPRING SEMESTER 1975

January	
13 Mon.	Dormitories open 1 p.m.
14 Tues.	Registration
15 Wed.	Classes begin
17 Fri.	Last day for registration and/or to add classes
March	
7 Fri.	Mid-Semester reports due; last day for making application for May graduation
10-14 Mon.-Fri.	Spring vacation—classes not in session
17 Mon.	Classes resume 8 a.m.
28 Fri.	Good Friday, classes not in session
May	
3 Sat.	Institutional Testing
12-16 Mon.-Fri.	Final Examinations
17 Sat.	Commencement 10 a.m.

FIRST SUMMER TERM 1975

June	
9 Mon.	Registration
10 Tues.	Classes begin; last day for registration and/or to add classes
13 Fri.	Last day for making application for summer graduation
14 Sat.	Classes in session
July	
4 Fri.	Classes not in session
11 Fri.	First summer session ends

SECOND SUMMER TERM 1975

July	
14 Mon.	Registration
15 Tues.	Classes begin; last day for registration and/or to add classes
August	
15 Fri.	Second summer session ends

1975

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FALL SEMESTER 1975

August	
24 Sun.	Dormitories open 1 p.m.
25-26 Mon.-Tues.	Orientation
27 Wed.	Registration
28 Thurs.	Classes begin
29 Fri.	Last day for registration and/or to add classes
September	
1 Mon.	Labor Day—Classes not in session
6 Sat.	Institutional Testing
October	
17 Fri.	Mid-Semester reports due; last day for making application for December graduation
November	
26 Wed.	Thanksgiving recess begins 5 p.m.
December	
1 Mon.	Classes resume 8 a.m.
6 Sat.	Institutional Testing
15-19 Mon.-Fri.	Final Examinations

1976

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SPRING SEMESTER 1976

January	
12 Mon.	Dormitories open 1 p.m.
13 Tues.	Registration
14 Wed.	Classes begin
16 Fri.	Last day for registration and/or to add classes
March	
5 Fri.	Mid-Semester reports due; last day for making application for May graduation
8-12 Mon.-Fri.	Spring vacation, classes not in session
15 Mon.	Classes resume 8 a.m.
April	
16 Fri.	Good Friday, classes not in session
May	
1 Sat.	Institutional Testing
10-14 Mon.-Fri.	Final Examinations
15 Sat.	Commencement 10 a.m.

DIRECTORY

The Governing Board
West Virginia Board of Regents

	Term Expires
F. L. Blair, M.D., Parkersburg	1975
Edward H. Greene, Huntington	1975
Albert M. Morgan, *Secretary,* Morgantown	1975
Elizabeth H. Gilmore (Mrs.) *Vice President,* Charleston	1977
Okey L. Patteson, Mt. Hope	1977
Frederick P. Stamp, Jr., *President,* Wheeling	1977
John E. Amos, Charleston	1979
Earle T. Andrews, Berkeley Springs	1979
Amos A. Bolen, Huntington	1979
Daniel B. Taylor, *State Superintendent of Schools,* Charleston (ex-officio)	
Ben L. Morton, *Chancellor,* Charleston	

Fairmont State College is a state-supported institution operated under the governance of the West Virginia Board of Regents. The Board consists of nine members appointed by the Governor and confirmed by the Senate. The Chancellor is the chief executive officer of the Board and the chief executive officer of the state system of higher education. The State Superintendent of Schools is an ex-officio non-voting member.

Advisory Board
Fairmont State College
1974

	Term Expires
Edward W. Eardley, Charleston	1975
Harry J. Robbin, Wheeling	1976
Luther E. Berry, Bridgeport	1977
Delbert C. Smith, M.D., *Chairman,* Fairmont	1978
Ralph E. Doolittle, Jr., Fairmont	1979
Hays Webb, Fairmont	1980
James V. Gainer, M.D., Kingwood	1981

Administration

President, Wendell G. Hardway, Ph.D.
Vice-President for Administration, William P. Turner, Ph.D.
Dean of Academic Affairs, William A. Boram, Ph.D.
Dean of Student Affairs, George E. Cannon, M.A.
Registrar and Administrative Assistant, Billy G. Dunn, Ed.D.
Associate Dean of Academic Affairs for Teacher Education, Galen F. Duling, M.A.
Associate Dean of Academic Affairs, Paul E. Edwards, Ph.D.
Director of Admissions and Assistant Registrar, John G. Conaway, M.A.
Director of Library, Robert G. Masters, M.A.
Associate Dean of Students Affairs, A. Neil Frye, M.A.
Associate Dean of Student Affairs, Lois M. Laughlin, M.A.
Student Affairs Counselor, Peter E. Pell, M.A.
Bookstore Manager, Lionel O. Bickel, M.A.
Business Manager, Homer W. Cox, B.S.
Director of Student Health Service, Harry C. Fleming, M.D.
Coordinator of Black Students, Carl M. Hunt, M.A.
Director of Physical Facilities, Harold P. Lawson
Director of Food Service, Frank Pulice, Jr.
Assistant Business Manager, Alva J. Rice, B.S.
Director of Public Relations and Alumni Secretary, Earl N. Straight, M.A.
Chief Security Officer, Benny J. Testa
Director of Athletics, Wilford R. Wilson, M.A.

Counseling Center

William D. Shaffer, M.A., Counselor
William F. Julian, M.S., Counselor and Director of Veterans Affairs
Blair Montgomery, M.A., Student Affairs Counselor
Michele Stump, M.A., Student Affairs Counselor

Computer Center

Edward E. Bock II, M.S.E.E., Director
George Tilko, B.S., Assistant Director

Learning Resource Center

Charles M. Manly, M.A., Director
Robert Moffett, B.S., Technician

Library

Robert G. Masters, Director of Library
Mary A. Hupp, Assistant Reference Librarian
Marsha L. Nolf, Assistant Cataloger
Ruth Ann Powell, Acquisitions Librarian
Janet S. Salvati, Reference Librarian
Jerry D. Saye, Cataloger
Jean E. Simonof, Periodicals Librarian

Foundations Program

Elizabeth Balser, M.A., Director

Academic Structure

- DIVISION OF COMMERCE, Edgar N. Jaynes, M.B.A.
    - Business Administration
    - Business Education
    - Economics
- DIVISION OF EDUCATION, Harry T. Hadley, Ed.D.
    - Elementary Education
    - Home Economics
    - Secondary Education
- DIVISION OF FINE ARTS, Richard P. Wellock, M.A.
    - Art
    - Music
    - Speech
    - Drama
- DIVISION OF HEALTH, PHYSICAL EDUCATION, RECREATION, AND SAFETY, David R. Bohnke, Ph.D.
- DIVISION OF TECHNOLOGY, James A. Hales, Ed.D., Director and Chairman
- DIVISION OF LANGUAGE AND LITERATURE, Byron Jackson, Ph.D.
    - English
    - French
    - German
    - Journalism
    - Library Science
    - Spanish
- DIVISION OF SCIENCE AND MATHEMATICS, William D. Ruoff, Ph.D.
    - Biology
    - Chemistry
    - Geology
    - Mathematics
    - Physical Science
    - Physics
- DIVISION OF SOCIAL SCIENCES, Yu San Wang, Ph.D.
    - History
    - Geography
    - Philosophy
    - Political Science
    - Psychology
    - Sociology
- COMMUNITY COLLEGE
    - Allied Health Technologies
        - Nursing, Martha Miller, Ed.D., Director
        - Medical Laboratory Technology
        - Radiologic Technology

- Business Technologies
  - Accounting
  - Clerical
  - Electronic Data Processing
  - Retail Management
  - Secretarial
- Engineering Technologies
  - Construction
  - Drafting
  - Electrical-Electronic
  - Mechanical
  - Power
  - Printing

Faculty

Amos, Raymond E., Jr., (1965), Co-ordinator, Biology; *Professor of Biology;* B.S., Fairmont State College; M.S., Ph.D., West Virginia University.

Arcure, Martin M., (1968), *Assistant Professor of Physical Education;* A.B., Fairmont State College; M.S., West Virginia University.

Arnold, Eugene R., (1967), *Professor of Education;* A.B., West Virginia State College; M.Ed., University of Cincinnati; Ed.D., University of Pittsburgh.

Ashton, John H., (1970), *Assistant Professor of Music;* B.F.A., M.F.A., Carnegie-Mellon University.

Ayers, Phyllis L., (1956-66; 1971), *Professor of History;* B.S., Carnegie Institute of Technology; Ph.D., University of Pittsburgh.

Bahl, Wendy J., *Adjunct Lecturer;* Registered Technologist, Montefoire Hospital, RT (AART), Pittsburgh; Radiology Technologist Director, Fairmont General Hospital.

Baker, William H., III, (1969), *Assistant Professor of Economics;* A.B., M.S., Kansas State College.

Balser, Elizabeth H., (1971), *Associate Professor of English,* A.B., M.A., West Virginia University.

Basile, Joseph, (1972), Coordinator, Field Services; *Assistant Professor of Education;* B.A., Fairmont State College; M.A., West Virginia University.

Batson, David C., SR., (1969), *Associate Professor of Industrial-Technical Education;* B.S., M.A., West Virginia University.

Bauer, Robert, (1971), Coordinator, Psychology; *Assistant Professor of Psychology;* A.B., University of South Florida; Ph.D., University of Tennessee.

Bock, Edward E., II, (1967), Director of Computer Center; *Assistant Professor of Commerce;* B.S.E.E., M.S.E.E., West Virginia University.

Boram, William A., (1963-67: 1970), Dean of Academic Affairs; *Professor of English;* B.A., Glenville State College; M.A., West Virginia University; Ph.D., University of Pittsburgh.

Brooks, James D., (1964), *Associate Professor of Art;* B.F.A., M.F.A., University of Iowa.

Bundy, Joseph, (1965), *Associate Professor of Health Education;* B.S., Fairmont State College; M.S., Ed.D., West Virginia University.

Burns, Doris W., (1966), *Assistant Professor of Commerce;* A.B., Marshall University; M.A., West Virginia University.

Burns, Joan H., *Adjunct Lecturer;* B.A., M.S. Medical Technology, West Virginia University; Chief Medical Technologist, Fairmont Clinic.

Burns, Ruth A., (1965), *Assistant Professor of Commerce;* A.B., Fairmont State College; M.A., West Virginia University.

Byers, George F., (1971), *Assistant Professor of English;* A.A., Vincennes University; A.B., M.A., Ph.D., Indiana University.

Cameron, Robert B., (1972), *Assistant Professor of Psychology;* B.S., Lewis and Clark College; M.S., University of Kentucky; Ph.D., University of Kentucky.

Cannon, George E., (1962), Dean of Student Affairs; *Associate Professor of Psychology;* A.B., Fairmont State College; M.A., West Virginia University.

Cavanaugh, Jean C., (1967), *Professor of English;* B.A., Webster College; M.A., St. Louis University; Ph.D., Catholic University of America.

Church, Samuel M., (1970), *Associate Professor of Psychology;* A.B., M.S., Ph.D., West Virginia University.

Clarke, Paul A., (1967), *Professor of Education;* B.S., Mt. St. Mary's College; M.Ed., Ed.D., University of Maryland.

Clovis, John C., II, (1970), *Assistant Professor of Art;* B.S., M.A., West Virginia University.

Coleman, James E., (1968), *Professor of Chemistry;* B.S., M.S., Louisiana State University; Ph.D., Ohio State University.

Collins, Edmund E., (1949), *Professor of Physical Science;* A.B., M.A., West Virginia University; Ed.D., University of Pittsburgh.

Conaway, John (1971), Assistant Registrar and Director of Admissions; *Instructor in Education;* A.B., Fairmont State College; M.A., West Virginia University.

Copeland, Margaret E., (1952), *Associate Professor of English;* B.A., West Virginia University; M.Ed., University of Mississippi.

Creasy, William D., (1954), *Professor of Biology;* B.S., West Virginia Institute of Technology; M.S., West Virginia University; Ph.D., University of Iowa.

Crues, Dorothy, (1968), *Instructor in Mathematics;* B.A., M.A., Midwestern University.

Cunningham, Glennis H., (1972), *Professor of Education;* B.A., Glenville State College; M.A., Ed.D., West Virginia University.

Dodge, Margaret R., (1965), *Assistant Professor;* B.S., West Virginia University; M.S., University of Maryland.

Doolittle, Margaret T., (1966), Coordinator, Elementary Education; *Professor of Education;* B.A., Glenville State College; M.A., Ed.D., West Virginia University.

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Gertrude Hall, M.A., *Home Economics*
Cleo D. Haught, M.S., *Chemistry*
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George Hunt, Ph.D., *Zoology*
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An Introduction

About the Campus

Fairmont State College is the largest of the West Virginia state colleges—largest in numbers of total enrollment and largest in number of annual graduates. The College has shown a steady growth both in the numbers of students it serves (the student body has tripled in size in the last 10 years) and in the programs and facilities available. It is a coeducational institution offering two-year associate and four-year bachelor degrees as well as a wide-ranging program of non-degree continuing education.

An extensive building program has produced a new Fine Arts and Industrial-technical building, the new $3 million Hunt-Haught Science Hall, and expansion of the Student Center. A $1.2 million addition which more than doubled the size of the Library was constructed in 1973. There are 12 major buildings on the campus. Its extensive campus contains the only known stand of virgin timber remaining in Marion County and one of the last in the state of West Virginia.

In addition to emphasis on modern facilities, Fairmont State College has preserved and honored its traditions. A one-room school museum on the campus recalls the days when the College served as a private teacher training school which began in 1865. It became a state-supported normal school in 1867, and in 1943 it was authorized to offer Bachelor of Arts and Bachelor of Science degrees.

Academic excellence and personal growth and fulfillment, the principal purposes of the College, are complemented by active fine arts and sports programs. A year-round contemporary film series, lecture, and music programs are an important part of the social calendar.

The College's 80-acre campus is beautifully located on a hill overlooking Fairmont, West Virginia. The city of Fairmont, approximately 90 miles south of Pittsburgh on highway I-79, is the county seat of Marion County and has a population of about 27,000. It is the center of the coal industry of northern West Virginia and the operating headquarters of large coal, utility, and manufacturing concerns.

Philosophy and Objectives

Fairmont State College is an undergraduate institution operating under the authority of the West Virginia Board of Regents. The College is governed by its President with the aid and advice of its Advisory Board, Vice-President and Deans, Faculty Senate, and Student Council. It offers courses of study leading to the Bachelor's Degree in the humanities, the social and natural sciences, teacher education, and the fine arts. The College also conducts programs of vocational industrial-technical education and grants the degree of Associate of Arts or Science after two years of study. Pre-professional study is available in various fields, including medicine, law, dentistry, and pharmacy.

The College considers that its objective is to educate its students to be ntelligent and productive persons, capable of participating in and understandng the world of the twentieth century. Accordingly, the College seeks to provide a suitable environment for free and responsible inquiry into the nature, sources, and implications of human knowledge and culture; and it challenges students to promote their own intellectual, social, and personal development. The College faculty serve this objective by guiding the students n acquiring knowledge and by maintaining a dialogue with them. The College fully supports the ideal of a well-educated society and upholds the academic freedom of its faculty and students, confident that the best interests of the community are served when the search for truth is imaginative and vigorous.

The College follows a liberal policy of student admissions and believes that it can assist the highly-motivated student to overcome deficiencies in academic preparation. Academic standards are high, and the Fairmont State College degree is expected to represent a level of achievement that will be respected throughout the nation.

The College has a traditional interest in preparing teachers who deserve respect in West Virginia, the region, and throughout the nation. Recognizing he importance of able teachers to a progressive society, it requires outstanding academic performance of its teacher candidates and offers them sound professional training for elementary and secondary teaching.

The College, which draws many students from an immediate five-county area, welcomes the enthusiastic support it receives from Fairmont and surrounding multi-county areas. In return the College participates actively in community projects and services, shares its programs and facilities with the public, and serves as a community learning and cultural center.

Accreditation

Of great importance to the reputation of a college is how it ranks scholastically with other colleges. Accreditation means that a college has been carefuly evaluated and approved in its governance, in each curriculum, in the quality of its faculty, in the adequacy of facilities, library, equipment, and laboratories.

To assure its stature and academic excellence, a college obtains accreditaion from both regional and national agencies and joins certain accrediting organizations.

Fairmont State College is fully accredited by its accrediting associations—he North Central Association of Colleges and Secondary Schools and the National Council for Accreditation of Teacher Education.

The College is also a member of the American Association of Colleges for Teacher Education, the Association of American Colleges, the American Council on Education, the National Commission on Accrediting, the National League for Nursing, the Regional Council for International Education, the American Library Association, and the West Virginia Library Association.

Admission

GENERAL ADMISSION PROCEDURE

All students desiring admission to Fairmont College, whether directly from high school or as transfer students from another college or university, must file an application for admission and submit a health record on forms provided by the Director of Admissions. All correspondence relative to admission and all credentials in support of an application must be on file at least two weeks prior to the opening of a semester or term.

Admission Requirements

The following admissions requirements are minimal. Admission to the college does not necessarily guarantee admission to specific programs, successful completion of which require certain competencies.

Graduates of approved high schools are eligible if they rank in the upper three-fourths of their graduating classes.

Graduates of approved high schools who rank in the lower quarter of their graduating classes may be admitted provided they have attained a composite standard score of 14 or above on the American College Test.

Graduates of approved high schools who have served in the nation's military forces for a period of at least one year will be admitted irrespective of either their high school graduation class rank or their ACT scores.

Probationary Admission

Graduates of approved high schools who rank in the lower quarter of their graduating classes and who fail to attain a composite standard score of 14 or above on the American College Test may be admitted on probation. When admitted on probationary status, a student is required to enroll in Foundations 101 and be registered for at least two general studies requirements during the fall or spring semesters or one general studies requirement and a minimum of six semester hours during a summer term. Removal from probationary status is determined by the Admissions and Credits Committee upon the completion of the first semester or summer term.

Provisional Admission

Provisional admission is granted to high school seniors who are applying for admission for the summer term or the fall semester following high school graduation if they attain a composite standard score of 14 or more on the ACT. Such applicants should submit applications and health forms but are not required to submit high school transcripts until they have graduated.

Note: There are two exceptions to this procedure: (1) Since Nursing is a selective program with limited enrollment, applicants should complete the ACT early and have the high school transcripts forwarded early in the fall. To insure consideration, applications, test scores and transcripts must be received by December 1; (2) Students applying for scholarships should have the transcripts forwarded at the conclusion of the first semester of the senior year.

Provisional Admission of High School Juniors

Provisional admission will be granted high school juniors who have attained a 3.0 (B) average or better on at least 12 units of the college preparatory curriculum at the end of six semesters of high school work. Final admission may not be granted unitl graduation from high school.

Admission of Talented High School Students

Outstanding high school students may be admitted either in the summer following completion of their junior year in high school or on a part-time basis during their senior year in high school if they meet the following criteria:

1. Have completed the junior year of the college-bound curriculum of his high school.
2. Have a B-plus, or better, average on high school subjects in the college-bound curriculum.
3. Have the recommendation of the high school principal.
4. File an application for admission and submit transcripts of high school work.
5. Pay regular college fees.

The credit earned under this arrangement is college creidt and will be "stored" here and granted to the student when he enrolls in college.

To qualify for English classes taught in high schools, seniors must have the same potential as Fairmont State College freshmen given advanced standing in English (see ADVANCED STANDING, page 32). In estimating student potential, counselors can — at their own discretion — apply a number of evaluation tools. They can use, for example, the State-County Testing Educational Development Series to determine the approximate percentile rank of a senior who has not yet taken the ACT. Should the student enroll in another college, a transcript of the work will be forwarded to that institution. The decision as to whether advance standing credit is granted is, of course, left to the discretion of the receiving institution.

This program is not designed to interfere with the regular high school program. Rather, it affords an apportunity for superior students to accelerate their training if they so desire.

Admission by G.E.D. Test

Non-high school graduates may be admitted by completing the General Education Development Test. They must be veterans, persons over 19 years of age, or persons past the age they would have been had they remained in high school until they graduated. Such persons must have been out of school more than one year preceding application for examination. They will be admitted if they attain a standard score of 40 on each of the five parts of the

General Education Development Test or an average standard score of 50 or above on the entire test. Such students must have no severe character or health defect. G.E.D. scores must be sent directly to the Director of Admission from USAFI or from the testing center.

Foreign Students

To be admitted, a foreign student must demonstrate proficiency in written and spoken English. Such proficiency can be established by the successful completion of the Test of English as a Foreign Language, administered by the Education Testing Service of Princeton, New Jersey, 08540. Information concerning this test can be secured through U. S. Embassies and Consulates throughout the world or by writing to TOEFL, 1755 Massachusetts Avenue, N.W., Washington, D.C., 20036.

The applicant must provide proof of adequate financial support. Such proof normally consists of a letter from an appropriate governmental or bank official showing that he has sufficient funds to defray the cost of his education while attending Fairmont State College and that these funds will be available to him in this country.

The applicant must also file an application for admission, a health form, and an official transcript of all academic credits and grades. The transcript must be sent by the institution last attended. The application for admission may be secured by writing to the Director of Admissions, Fairmont State College, Fairmont, West Virginia, 26554.

Admission of Transfer Students

Any applicant for admission to Fairmont State College who has attended another institution of collegiate rank will be classified as a transfer student, whether he has earned credit or not. The college does not, under any condition, disregard college level credit earned elsewhere. Advance standing credit will not be granted for credit designated as occupational or non-transferable by the institution attended. Credit earned at other accredited colleges and universities will be allowed toward a degree if applicable.

To be admitted unconditionally as a transfer student, one must meet the entrance requirements of Fairmont State College, must present evidence that he is in good standing in every respect at the institution last attended, and ordinarily must have maintained a 2.0 (C) or better average on all college work previously attempted. Students who have been dismissed for academic or social reasons will not be eligible for unconditional admission.

Applications of students who do not meet the requirements for unconditional admission are considered on an individual basis by the Admission and Credits Committee. Factors such as quality of high school work, test scores, maturity, military service, work experience, length of time out of school, size of quality point deficiency, etc. are weighed and, if warranted, probationary admission may be granted.

Transfer credits are posted on the permanent record as received. All grades received by a transfer student in the college or colleges which he has previously attended must be included in the calculation of his quality point average even though some of the grades do not represent courses for which credit can be granted. Grades earned in other institutions shall not be used to make up a deficit of quality points in this institution.

To be official, a transcript must come directly from the issuing institution and must bear the official seal of the institution, and the manual signature of the proper authority. The transcript should show the descriptive title of the courses, the year in which the work was done, the number of credits, and the grades. Transcripts, when accepted, become the permanent property of the college and will not be returned to the student. Such transcripts should be sent at least two weeks prior to the opening of the semester or term.

General Requirements for All Applicants for Admission

All credentials submitted in support of an application for admission become the property of the College and will not be returned to the student. Such credentials include an official transcript of high school or college grades, an application for admission and a health record. The prospective student is responsible for the submission of all necessary forms and records in support of an application for admission.

Admission is for one semester or term and may be used only for that time. If the student fails to register during the semester or term for which he has been admitted, he must file another application if he desires admission at a later date.

Any student admitted upon the basis of false and/or incomplete credentials will be subject to immediate dismissal from the college.

Admission does not guarantee housing. Separate applications for dormitory space must be submitted to the Associate Dean of Students.

Any changes in local addresses of any student at Fairmont State College must be reported to the Registrar within a reasonable time.

All local addresses must be complete including the address of a student's landlord.

The American College Test

Fairmont State College requires the American College Test (ACT) of all applicants for admission. Scores on this test are used in placing students in English and Mathematics, for applicants for scholarships and loans, and in the academic counseling program. High school students are urged to take the test during their senior year. Financial aid applicants should take the test either in August prior to the beginning of the senior year, or on the October or December dates.

Advanced Placement

Advanced placement and/or credit will be granted to entering freshman students who have qualified on the basis of the tests of the Advanced Placement Program of the College Entrance Examination Board. Scores of three, four, or five are required.

Physical Examination

All full-time students admitted to Fairmont State College, or who have been absent for two semesters, are required to have a physical examination by their personal physician. This physical examination form will be sent to the student in time for the student to obtain the physical examination before reporting for the Orientation period. Failure to comply with the regulation on the part of the student will result in suspension until the regulation has been met.

Pre-registration

All freshmen and transfer students are urged to pre-register during the summer preceding enrollment. All new students are expected to pre-register unless they live at such a distance from Fairmont as to make a special trip an undue hardship. It is understood, however, that students who participate in the pre-registration program will be given priority in making schedules.

Transfer students who have been fully admitted may be pre-registered by coming to the campus at a time arranged with the Registrar. All transfer students should avail themselves of this opportunity since it simplifies the transfer process.

A pre-registration period for regularly enrolled students is scheduled each semester. The purpose of pre-registration is to insure students adequate schedules. All students must pre-register if they plan to re-enroll for the following semester or term.

Registration

At least two weeks prior to registration day an official transcript must be filed in the Director of Admissions for each incoming freshman and each transfer student.

All students are expected to complete registration on the days designated for this purpose at the beginning of each semester or term. Registration by proxy is prohibited. While all students are expected to register on time, late registration periods are permitted within prescribed limits as set forth in the schedule. Late registration fees are assessed in accordance with the fee schedule cited under Special Fees.

Credit From a Junior or Community College

The maximum credit accepted from a Junior or Community College accredited by the North Central Association of College and Secondary Schools or other regional accrediting association will not exceed 72 semester hours. No more than 64 semester hours may be accepted from junior or community colleges which are not regionally accredited. No credit will be allowed for courses completed in a junior or community college subsequent to attainment of junior or higher rank by the student.

Non-resident or Off-campus Credit

One hundred (100) semester hours of the 128 required for graduation shall be completed in regularly scheduled campus courses. The 28 hours of permissible non-residence courses may be earned by extension, home study (correspondence), radio, television, special examination and/or military service. Credit earned in home study will be accepted only when earned in a regionally approved college. CLEP and ROTC credit are excluded from the above limitation.

Auditors

Students who are registered at Fairmont State College may be permitted to attend classes as auditors provided they shall have obtained the written permission of their advisers and of the instructors in the classes they desire to visit. No person who enrolls in any class as an auditor may in the same semester be considered as enrolled in this class for the purpose of obtaining credit. In no case whatsoever will auditing be regarded as a factor in obtaining credit.

Other persons, even if not registered students, may attend classes as auditors upon securing permission from the Registrar and from the instructors involved and upon payment of the regular fee. Auditors are required to complete the regular registration forms.

Special Examinations for Course Credit

The College Level Examination Program (CLEP) is available to students who wish to receive credit for specific courses. There are thirty-one (31) different tests offered for credit.

Students may take other special examinations to qualify for credit in certain courses not offered by CLEP.

For further information as to the courses covered in this manner, students should contact the Counseling Center.

Applications must be made to the Registrar for permission to take a special examination. To qualify for permission to take such an examination, an applicant must be enrolled or must have completed successfully one semester or summer session in Fairmont State College. The applicant must, in addition, establish eligibility in regard to his background in the area concerned. In order to gain college credit by special examination, the student must demonstrate better than average proficiency in the course. Examinations will not be given for courses in which the student has obtained a low grade previously.

Applicants must pay a fee of $3.00 for each special examination, if regularly enrolled at the time of taking the examination; otherwise the fee is $2.50 per semester hour of credit to be received. A receipt for the payment of the fee must be obtained from the Business Office. No money will be refunded if any examination is failed. No examination may be repeated.

First semester freshmen may establish course credit by examination in the following courses without the payment of special examination fees: English

104—Written English—3 hours; French 101 and 102—Elementary French—6 hour; Home Economics 101—Principles of Clothing Construction—2 hours; Home Economics 201—Principles of Food Selection and Preparation—3 hours. An additional condition necessary for the granting of credit is enrollment by the student in the next higher course.

Academic Credit for Military Service

Students with at least one year of military service may be granted a maximum of four semester hours credit which may be used to satisfy General Studies physical education and/or elective requirements. It is the student's responsibility to request this credit and to verify this military experience to the Registrar.

Advanced Standing

Based on high school record and performance on the ACT, the Registrar will determine eligibility for advanced standing and credit in English and French as follows:

English—No semester grade of less than B in each of four units of high school English and a standard score of 22 or higher on the English part of the ACT.

French—No semester grade of less than B in each of two or more units of high school French and a standard score of 22 or higher on the English part of the ACT. The student must also complete French 201 with a minimum grade of C.

Students may be granted advanced standing credit for any number of the mathematic courses numbered 115, 116, 315 by earning at Fairmont State College a grade of C or better in a higher numbered course from the sequence 116, 315, 316.

Students who complete a major or teaching field in French may establish credit for French 101 and 102 if they complete French 201 with a grade of C or better.

College Level Examination Program (CLEP)

The College offers opportunities for earning course credit by examination through the College Level Examination Program. General examinations are offered in five basic areas: English Composition, Humanities, Mathematics, Natural Sciences, and Social Siciences-History. In addition, subject examinations are given in many specific fields of study. CLEP examinations are open to all, whether enrolled at Fairmont State or not. Information about course credits, examinations available, cost of examinations, and procedures for applying for examinations, is available at the Counseling Center.

The Summer Session

Fairmont State College offers a ten-week summer session each summer. This session is made up of two terms of five weeks each. The requirements

for admission and the character of the work offered are the same for the summer session as for the regular year.

All activities and facilities of the campus are available to students during the summer session. The student body is organized under its own leadership at the beginning of each session. A general program of social, recreational, and dramatic events is scheduled.

Special bulletins for the summer session are prepared for distribution. Those interested in working toward a degree, or in renewal of certificates, or in pre-prefessional courses, write for the Summer Bulletin. Address: Registrar, Fairmont State College, Fairmont, W. Va., 26554.

Evening Classes

Evening classes are operated for the benefit of all students. These classes are considered as work done in residence.

Off-campus Classes

Upon request, and when it is possible to provide suitable staff, Fairmont State College will offer off-campus courses to interested groups in the region of the state it serves. Ordinarily, an enrollment of ten or more persons is necessary before any off-campus courses may be offered. See Community College p256.

Preparatory Music and Art Programs

Music and art classes and private lessons taught by student and professional instructors are available to community, college, secondary and elementary students for an additional fee. Contact the Fine Arts Division office.

Expenses and Financial Assistance

Classification of Residents and Nonresidents for Admission and Fee Purposes

General

Students enrolling in a West Virginia public institution of higher education shall be classified as resident or nonresident for admission, tuition and fee purposes by the institutional officer designated by the President. The decision shall be based upon information furnished by the student and all other relevant information. The designated officer is authorized to require such written documents, affidavits, verifications, or other evidence as are deemed necessary to establish the domicile of a student. The burden of establishing residency for tuition and fee purposes is upon the student.

If there is a question as to residence, the matter must be brought to the attention of the designated officer and passed upon at least two weeks prior to registration and payment of tuition and fees. Any student found to have made a false or misleading statement concerning his residence shall be subject to disciplinary action and will be charged the nonresident fees for each session theretofore attended.

Residence Determined by Domicile

Domicile within the state means adoption of the state as a fixed permanent home and involves personal presence within the state with no intent on the part of the person to return to another state or country. West Virginia domicile may be established upon the completion of at least twelve months of continued residence within the state prior to the date of registration, provided that such twelve months residency is not primarily for the purpose of attendance at any institution of learning in West Virginia.

Establishment of West Virginia domicile with less than twelve months residence prior to the date of registration must be supported by proof of positive and unequivocal action, such as, but not limited to, the purchase of a West Virginia home, full-time employment within the state, paying West Virginia property tax, filing West Virginia income tax returns, registering to vote in West Virginia and the actual exercise of such right, registering of motor vehicles in West Virginia, and possessing a valid West Virginia driver's license. Additional items of lesser importance include transferring or establishing local church membership, involvement in local community activities, affiliation with local social, civic, fraternal or service organizations, and various other acts which may give evidence of intent to remain indefinitely within the state.

Proof of a number of these actions shall be considered only as evidence which may be used in determining whether or not a domicile has been established.

Minors

Minors are defined by the West Virginia Code (2-2-10) as persons under eighteen years of age. The residence of a minor shall follow that of the parents at all times, except in extremely rare cases where emancipation can be proved beyond question. The residence of the father, or the residence of the mother if the father is deceased, is the residence of the unmarried or unemancipated minor. If the father and the mother have separate places of residence, the minor takes the residence of the parent with whom he lives or to whom he has been assigned by court order. The parents of a minor will be considered residents of West Virginia if their domicile is within the state.

A minor student who is properly admitted to an institution as a resident student shall retain that classification as long as he enrolls each successive semester.

Emancipated Minor

An emancipated minor may be considered as an adult in determining residence, provided satisfactory evidence is presented that neither of his parents, if living, contribute to his support nor claim him as a dependent for federal or state income tax purposes.

In the event that the fact of emancipation is established, the emancipated minor assumes all of the responsibilities of an adult to establish residence for tuition and fee purposes. Proof must be provided that emancipation was not achieved principally for the purpose of establishing residence for attendance at an institution of higher education.

Students Eighteen Years of Age or Over

A student eighteen years of age or over may be classified as a resident if (1) the parents were domiled in the state at the time the student reached majority and such student has not acquired a domicile in another state, or (2) while an adult the student has established a bona fide domicile in the State of West Virginia. Bona fide domicile in West Virginia means that the student must not be in the state primarily to attend an educational institution and he must be in the state for purposes other than to attempt to qualify for resident status.

Any nonresident student who reaches the age of eighteen years while a student at any educational institution in West Virginia does not by virtue of such fact alone attain residence in this state for admission or tuition and fee payment purposes.

A student who is properly classified as a resident at the time that he reaches the age of eighteen shall continue to be classified as a resident as long as he enrolls each successive semester and does not establish a domicile, or legal residence, in another state.

Change of Residence

An adult student who has been classified as an out-of-state resident and who seeks resident status in West Virginia must assume the burden of proving conclusively that he has established domicile in West Virginia with the intention of making his permanent home in this state. The intent to remain indefinitely in West Virginia is evidenced not only by a person's statements but also by his actions. The designated institutional officer in making his determination shall consider such actions as, but not limited to, the purchase of a West Virginia home, full-time employment within the state, paying West Virginia property tax, filing West Virginia income tax returns, registering to vote in West Virginia and the actual exercise of such right, registering of motor vehicles in West Virginia and possessing a valid West Virginia driver's license. Additional items of lesser importance include transferring or establishing local church membership, involvement in local community activities, affiliation with local social, civic, fraternal or service organizations, and various other acts which may give evidence of intent to remain indefinitely within the state. Proof of a number of these actions shall be considered only as evidence which may be used in determining whether or not a domicile has been established. Factors militating against a change in residence classification may include such considerations as the fact that the student is not self-supporting, that he is carried as a dependent on his parents' federal or state income tax returns or his parents' health insurance policy, and that he customarily does not remain in the state when school is not in session.

Marriage

The residence of a married person is determined by the same rules of domicile which would apply if he or she were not married.

Military

An individual who is on active military service or an employee of the federal government may be classified as a resident for the purpose of payment of tuition and fees provided that he established a domicile in West Virginia prior to entrance into federal service, entered the federal service from West Virginia, and has at no time while in federal service claimed, or established a domicile in another state. Sworn statements attesting to these conditions may be required. The wife and dependent children of such individuals shall also be classified as residents of the State of West Virginia for tuition and fee purposes. Persons assigned to full-time active military service and residing in West Virginia may be classified as in-state residents for tuition and fee purposes after twelve months continuous location in the state.

Aliens

An alien in the United States on a resident visa, or who has filed a petition for naturalization in the naturalization court, and who has established a bona fide domicile in West Virginia may be eligible for resident classification, provided he is in the state for purposes other than to attempt to qualify for residency status as a student.

Higher Education Personnel

Full-time employees of the West Virginia Board of Regents and the institutions under its jurisdiction, full-time ROTC personnel assigned to the institutions, and their spouses and dependent children, shall be considered West Virginia residents for the purpose of the payment of tuition and fees.

Appeal Process

The decisions of the designated institutional officer charged with the determination of residence classification may be appealed to the President of the institution. The President may establish such committees and procedures as he determines necessary for the processing of appeals. The decision of the President of the institution may be appealed in writing with supporting documentation to the West Virginia Board of Regents in accord with such procedures as may be prescribed from time to time by the Board.

Payment of Tuition and Fees:

The regulations of the West Virginia Board of Regents provides that: "No financial credit of any type shall be extended to any individual either student or other, at any state college or institution. All colleges and institutions shall operate strictly on a cash basis with all payments and obligations being collected in advance. All tuition and fees must be collected in full for each semester on enrollment day for each semester."

Registration is not completed until a check covering payment of tuition, residence hall rent, board, and fees has cleared the bank upon which it was drawn. A late payment fee of $15 will be charged on each check returned for "insufficient funds" unless the student can obtain an admission of error on the part of the bank. The Business Office shall declare the fees unpaid and registration cancelled until the check has been redeemed and the additional charge paid.

Enrollment Fees Per Semester

	W. Va. Resident	Non-Resident
Full-time student (12 or more hours)	$121.00	$546.00
11 hours	115.00	520.75
10 hours	111.00	493.50
9 hours	107.00	466.25
8 hours	103.00	439.00
7 hours	62.50	308.25
6 hours	55.00	265.50
5 hours	47.50	222.75
4 hours	38.00	178.00
3 hours	31.00	135.75
2 hours	25.00	93.50
1 hour	18.00	51.25

Summer Session

Summer School is divided into two five-week sessions. Tuition and Registration Fees are determined by the number of hours for which a student is enrolled each term and whether he is a West Virginia resident or non-resident.

Cost of Each Summer Session

No. of Hours Enrolled	W. Va. Resident	Non-Resident
6 hours	$ 61.00	$243.50
5 hours	57.00	216.25
4 hours	53.00	189.00
3 hours	38.00	137.75
2 hours	29.00	95.50
1 hour	20.00	53.25

A receipt received at the time of payment will include an itemized statement of tuition and registration fees. A copy of the breakdown on tuition and registration fees may also be obtained in advance upon request.

Special Fees:

**Science Laboratory Fee	$ 5.00
Late Registration Fee: (One to five days)	$10.00
Graduation Fee (Inc. cap and gown)	10.00
Freshman Orientation Fee	1.50
Transcript Fee (First Transcript is furnished free)	1.00
Special Examinations for course credit (Regularly enrolled students)	3.00
Special Examinations for course credit (Non-enrolled students) per semester hour	2.50

Fees for Industrial Education

All courses in Industrial Education in which laboratory and demonstration materials are included will require an additional fee of $2.00 per credit hour. Students will pay the actual cost of personal projects constructed in laboratory classes.

*The term "resident" refers to classification for fee purposes only.

**Assessed each student enrolled in all science division laboratory courses. In event of unusual breakage, an amount to cover same may be assessed.

Pre-registration Fee

New students, transfer students, or students returning after a semester absence or longer are charged a service fee of $4 as they pre-register. This fee is not refundable.

Refund Policy for Tuition and Fees:

A student who withdraws regularly from the college may arrange for a refund of his fees in accordance with the following schedule. Refunds are determined from the first day of the school term which begins officially with Freshman Orientation Week. The official withdrawal date is certified by the Registrar.

Semester	
During first and second weeks	90%
During third and fourth weeks	70%
During fifth and sixth weeks	50%
Beginning with seventh week	No Refund
A Summer Term	
During first day	90%
During second day	70%
During third day	70%
During fourth day	50%
During fifth day	50%
Beginning with second week	No Refund

Residence Hall Expenses Per Semester

Rent:	
Morrow, North, Pence Halls	$207.00 plus tax
Morgan Hall	220.00 plus tax
Board:	
All residents of Morrow, North, and Pence Halls are required to purchase a meal ticket for use in the College Dining Hall	$324.00 plus tax
(May be purchased twice in a semester @ $162.00 plus tax)	
Breakage Fee:	
This fee, less charge for any damage, is returned at the end of occupancy period	$ 20.00
Key Deposit:	
This is returned when the student vacates his room or apartment and returns his key	$ 1.00
Social Fee:	
The fee is to be paid when a student moves into a residence hall. It covers the cost of the local newspaper, **TV Guide,** television cable, Christmas party, and various other expenses of the hall	$ 5.00

All rates are subject to change without notice.

Payment of Room and Board

Residence hall rent plus tax and a twenty-dollar breakage fee must be paid on or before registration day. Board plus tax must be paid in advance of specified dates either on a semester or half-semester basis.

Room rent plus tax, board plus tax, and a breakage fee for a summer term must be paid in full by registration day.

Residence Hall Reservations

Applicants for residence hall reservations must pay an $80.00 deposit at the time the application is filed with the College. (This amount is subject to change at any time.) The deposit will be credited to the applicant's residence hall rent account. All applications must be filed with the Office of Student Affairs.

Notice of cancellation of room reservations must be received by the Office of Student Affairs by June 15. Otherwise the total amount of $80.00 will be forfeited. (Exception: Should the applicant be denied admittance to the College, a full refund will be made without regard to dates.)

Not more than ten per cent of available living space in any campus dormitory may be assigned to out-of-state students.

FINANCIAL ASSISTANCE

Loan Funds, Scholarships, Student Aid

The scholarship, loan, and student employment funds of Fairmont State College are available to worthy students who need assistance in meeting their college expenses. All funds are administered by the Financial Aid Committee, unless otherwise indicated. Applications for scholarships and loans should be made to the Chairman, Financial Aid Committee, Fairmont State College, Fairmont, West Virginia 26554.

Philosophy of Financial Aid

1. All academically capable students should attend college.
2. Any student who needs financial assistance should be willing to work part-time after the first semester's attendance at Fairmont State College.
3. Financial assistance is neither designed to support luxuries nor should a student expect assistance just because he wants to be married.
4. A student who remains in good standing academically should never need to leave school for financial reasons.
5. Financial assistance is not intended to replace the responsibility of the parents; it is intended to supplement that which the home can and should provide.

Determining Awards

Most of the financial assistance for which students may apply comes from Federal Government grants made to the College. The College does not have unlimited funds from these programs. The programs involved are:

1. National Direct Student Loan Program
2. Supplemental Educational Opportunity Grants
3. Basic Educational Opportunity Grant
4. College Work-Study Program
5. Nursing Student Loan

The method used by the College to determine the family contribution for the student's eligibility for the above named programs is the PCS (Parent's Confidential Statement).

Loans

The loan program at Fairmont State College serves three functions:

1. Supplement the assistance needed by scholarship students.
2. Provide assistance to students who do not qualify for a scholarship.
3. Provide emergency short-term loans (not to exceed 90 days) to students who need financial assistance for educational purposes.

To qualify for a loan a beginning student must:

1. Meet all entrance requirements as prescribed by the West Virginia Board of Regents and by Fairmont State College.
2. Provide evidence of financial need by completion of a prescribed application.
3. Transfer students must have an overall C average on all previous work.

Loans Available

The National Direct Student Loan Program

Any student interested in entering Fairmont State College and who can meet the qualifications listed may apply.

Important facts pertaining to this loan are:

1. The loan funds are allocated by the Federal Government on a matching basis. The College must provide 10 percent of the total amount to be loaned each year. This amount is determined by the United States Office of Health, Education, and Welfare.
2. The College is limited as to how much it can lend each year.
3. An individual loan will be based on the actual need for basic expenses, tuition, room and board, book fees, etc. The maximum amount of a loan is determined by the student's total resources. A student having a loan will be expected to work, if needed, as a student employee on campus after one semester's attendance.
4. Repayment of principal, together with interest thereon, shall be made over a period commencing 9 months after the date on which the maker ceases to carry, at an institution outside the States approved for this purpose by the U. S. Commissioner of Education, at least one-half the normal full-time academic workload and ending 10 years and 9 months after such date. Interest of 3 per centum per annum shall accrue from the beginning of such repayment period. Repayment of principal, together with interest thereon shall be made in equal (or, if the maker so requests, in graduated installments

determined in accordance with such schedules as may be approved by the lending institution and the Commissioner) quarterly, bimonthly or monthly installments (as determined by the lending institution). The maker may at his option and without penalty repay all or any part of the principal, plus the accrued interest thereon, at any time. In the event of a failure to meet a scheduled repayment of any of the installments due on this note, the entire unpaid indebtedness including interest due and accrued thereon, shall, at the option of the lending institution, become immediately due and payable. Interest shall not accrue, and installments need not be paid during any period (A) during which the maker is carrying, at an institution of higher education or at a comparable institution outside the States approved for this purpose by the Commissioner, at least one-half the normal full-time academic workload or (B) not in excess of three years during which the maker (1) is on full-time active duty as a member of the Armed Forces (Army, Navy, Air Force, Marine Corps, or Coast Guard) of the United States, (11) is in service as a volunteer under the Peace Corps Act, or (111) is in service as a volunteer under Title VIII of the Economic Opportunity Act of 1965 (VISTA).

5. If the maker undertakes service after June 30, 1972, (A) as a full-time teacher in a public or other nonprofit private elementary or secondary school which is in a school district of a local educational agency which is eligible in such year for assistance pursuant to Title 1 of the Elementary and Secondary Education Act of 1965 and which for the purpose of this clause and for that year has been designated by the Commissioner in accordance with the provisions of Section 465 (A) (2) of the Act as a school with a high enrollment of students from low-income families. Or (B) as a full-time teacher of handicapped children (including mentally retarded, hard of hearing, deaf, speech impaired, visually handicapped, seriously emotionally disturbed, or other health-impaired children who by reason thereof require special education) in a public or other non-profit elementary or secondary school system for each complete year of such service the amount of this note shall be reduced at the rate of 15 per centum of the total principal amount of the loan plus interest thereon for the first and second year of such service, 20 per centum of the total principal amount plus interest thereon for the third and fourth year of such service, and 30 per centum of the total principal amount plus interest thereon for the fifth year of such service.

6. If, after June 30, 1972, the maker undertakes service as a full-time staff member in a preschool program carried on under section 222 (A) (1) of the Economic Opportunity Act of 1964 (Head Start) which is operated for a period which is comparable to a full school year in the locality, and provided that the salary of such staff member is not more than the salary of a comparable employee of the local educational agency, the principal amount of this note shall be reduced at the rate of 15 per centum of the total principal amount of the loan plus interest thereon for each complete year of such service.

7. If, after June 30, 1972, the maker serves as a member of the Armed Forces of the United States, up to 50 per centum of the principal amount of this loan shall be reduced at the rate of 12½ per centum of the total principal amount of the loan, plus interest thereon, for

each complete year of service in an area of hostilities that qualified for special pay under section 310 of Title 37, United States Code.

8. The maker is responsible for informing the lending institution of any change or changes in his address.
9. Application must be made by April 15.

Nursing Loan Program

Important facts pertaining to this loan are:

1. Limited to students in the Two-Year Nursing Program.
2. Interest rate during repayment the same as National Direct Student Loan Program
3. Certain repayment cancellation regulations that we will specify later.

The Claude Worthington Benedum Loan Fund

This loan is available to West Virginia residents only. The maximum loan is $300 in a school year. Interest is not computed while one is a full-time student at Fairmont State College. Complete repayment must be made within three years after graduation or ceasing to be a full-time student with an interest rate of 4 percent of the first year and 6 per cent the second and third years. The note must be co-signed by a parent or guardian.

Fairmont State College Foundation Emergency Loan

An emergency loan not to exceed $300 and must be repaid within 90 days. Interest is $.25 per month. The note must be co-signed by a parent or guardian. The applicant must have a C average or better and have attended Fairmont State College at least one semester.

Federally Insured or Guaranteed Loans

These are educational loans made by banks to students. They may have different titles (in West Virginia it is currently called Federally Insured Loan, in Maryland it is Maryland Higher Education Loan Corporation) but the provisions are generally the same and are as follows:

1. An entering freshman must be fully admitted and an upperclass student must be considered in good standing academically.
2. The parent or guardian must consent to the loan, but does not assume a financial obligation.
3. Loans are made by the student's home town bank.
4. Repayment begins the first day of the ninth month after graduation, after 30 days if not graduated.
5. The need analysis factor stated previously applies to this loan.

Supplemental Educational Opportunity Grant

This program provides grants of money from the Federal Government for those students showing the most financial need. Need is to be determined by the completion of a PCS (Parents Confidential Statement).

Basic Educational Opportunity Grant

The Basic Educational Opportunity Grant Program, more commonly known as Basic Grants, is a new program of student financial aid which was authorized by Title IV, Part A of the Education Amendments of 1972. This program provides for grants of $1,400 less the expected family contribution for all eligible students to assist them in meeting educational costs.

In order for a student to receive a Basic Grant, he must have been accepted for enrollment in, or be in good standing at an eligible institution of higher education which includes colleges, universities, vocational-technical schools, and hospital schools of nursing. Also, he must be enrolled on at least a half-time basis in an undergraduate course of study.

Award Process

1. A student will complete a Request for Determination of Family Contribution Form which collects only that data necessary for the calculation of Expected Family Contribution. These forms will be available at institutions of post secondary education, high schools, libraries, post offices, and other locations easily accessible to students.
2. Once the student completes the form, he will submit it to specified agencies contracting with the Office of Education to calculate the family contribution. These contractors will not exercise any discretion in the examination of the student-provided data but will simply make the mechanical calculation based on the formula specified in the Regulations for the Determination of Expected Family Contribution.
3. The contractors will then return to the student a multicopy notification of his expected family contribution. This document can then be submitted to the institution(s) of the student's choice.
4. The Office of Education will provide each eligible school with the criteria for determining student costs for Basic Grant purposes and a payment schedule based on the available appropriation. This payment schedule will reflect the appropriate reduction language specified in the law.
5. The school will then be able to notify the student of the amount of his Basic Grant as well as develop the remainder of his financial aid package.
6. At the time that the student enrolls in the institution, the school will bill the Office of Education through the NIH payment system for the Basic Grant awards made to students.
7. These awards will be distributed through the institutions, which will be acting as disbursing agents.

Scholarships

Fairmont State College does not have sufficient scholarships to award to all academically deserving students in financial need. The Financial Aid Committee examines the applicant's academic background (high school transcript and ACT scores) first and then searches for evidence of financial need.

To be eligible for a scholarship, a student must:

1. Be a West Virginia resident and graduate of a West Virginia high school.
2. Meet all entrance requirements as prescribed by the West Virginia Board of Regents and by Fairmont State College.
3. Must rank in the upper 10 per cent of the high school graduating class.
4. Make application by April 15.

Scholarships Available

Fairmont State College Undergraduate Scholarship

These scholarships are for entering freshmen and they pay tuition and registration fees ($75 per semester) for four years so long as a satisfactory academic average is maintained. The number to be awarded is determined by the school enrollment the previous year.

Claude Worthington Benedum Freshman Scholarship

These scholarships are for the freshman year only. The amount is $100 per semester so long as a satisfactory average is maintained. The number to be awarded each year is determined by the amount of money available.

Circle W Club Scholarship

Awarded annually to the outstanding academic student whose parent or legal guardian is a member of the Circle W Club of Local IUE 627. The recipient is to attend Fairmont State College and will receive $125 each semester for four semesters so long as a satisfactory academic average is maintained.

West Virginia Scholarship

These scholarships are not controlled by the College. Application blanks are available through the high schools and Awareness Counselors. The College is notified of the recipients by the West Virginia Board of Regents and receives a check for the student from the Regents' office. A recipient of the scholarship is not eligible for the Fairmont State College Undergraduate Scholarship. Applicants are urged to check with guidance counselors early in the school year about application procedure.

Part-time Employment

Opportunities are provided for many students who seek finanacial assistance through part-time employment. A registry of part-time jobs available on campus is maintained in the Financial Aid Office. On the college campus, students find employment in clerical work, library work, assisting instructors, kitchen and dining room work, maintenance, and other similar activities.

College Work-study program

Student employment is based on the family financial situation. Eligibility for employment can be determined by completing a work-study application.

Summer full-time employment is available, but limited, on campus or in the home community through the Summer On—and Off—Campus Work-Study Program. The student working off-campus is sponsored by a non-profit agency. The number employed during the summer is determined by the Federal Government allocation to the College.

Academic Information

Degrees

The three baccalaureate degrees granted by Fairmont State College are Bachelor of Science, Bachelor of Arts, and Bachelor of Arts in Education. For each of these three degrees 128 semester hours of credit is required. No student shall be awarded more than one baccalaureate degree. An Associate of Arts or Associate of Science degree is also granted upon successful completion of from 64-75 semester hours in the two-year curricula.

Degree Programs

Bachelor of Arts and Bachelor of Science Degrees

	Minimum Semester Hours Required		
	Degree	Major	Minor
Art			24
Biology	B.S.	54	25
Business Administration	B.S.		
General	B.S.	39	18
Accounting		39	18
Economics		39	18
Office Administration		34	21
Electronic Data Processing			19

	Degree	Major	Minor
Chemistry	B.S.	64	
Chemistry	B.A.	54	19
Engineering Technology	B.S.	82	
English	B.A.	42	30
French	B.A.	30	24
Geography			18
German			18
History	B.A.	30	18
Home Economics	B.S.	48	26
Journalism			16
Library Science			24
Math	B.A.	30	21
Math	B.S.	30	21
Music			27
Philosophy			15
Physical Education	B.S.	31	31
Physics			31
Political Science	B.A.	30	15
Psychology	B.S.		
General		37	18
Industrial-Personnel		46	
Community Service		52	
Recreation	B.S.	45	
Sociology	B.S.		
General		30	18
Social Work		42	
Speech and Drama	B.A.	34	28

Community College
Two-Year Associate Degrees

	Degree	Semester Hours Required
Allied Health Technologies		
Nursing	A.S.	70
Medical Laboratory Technology	A.A.S.	70
Radiologic Technology	A.A.S.	70
Business Technologies		
Accounting	A.S.	64
Clerical	A.S.	64
Electronic Data Processing	A.S.	64
Retail Management	A.A.S.	64
Secretarial	A.S.	64
Engineer Technologies		
Construction	A.S.	75
Drafting	A.S.	75
Electrical-Electronic	A.S.	75
Mechanical	A.S.	75
Power	A.S.	75
Printing	A.S.	75

Bachelor of Arts in Education

Early Childhood Education	25
Subject Specializations 1-9 or 7-9	
Art	30
French	24
General Science	30

Health Education	25
Home Economics	26
Language Arts	24
Math	13
Music, Vocal	31
Physical Education	25
Social Studies	36
Speech	22
Single Teaching Fields 7-12	
Art	38
Biology	44
Business Education, Secretarial	27
Chemistry	34
English	36
French	30
General Shop	33
Health Education	28
Journalism	24
Math	18
Physical Education	31
Physics	31
Speech	32
Comphrehensive Teaching Fields 7-12	
Biological, General Science	55
Business Education	44
Chemistry, General Science	48
Home Economics, Vocational	47
Industrial Arts	59
Language Arts	59
Math	32
Physics, General Science	45
Social Studies	59
Comprehensive Teaching Fields 1-12	
Art	57
Music	59
Teaching Field K-12	
School Librarian	21
Special Education—Mental Retardation	21

Grading System

The following system of grading is used within the institution:

A—Superior, given only to students for exceptional performance.
B—Good, given for performance distinctly above the average in quality.
C—Average, given for performance of average quality.
D—Lowest passing grade for performance of poor quality.
F—Failure. Course must be repeated if credit is to be received.
FIW—Failure because of irregular withdrawal.
I—Incomplete, given to a student who misses a part of the course for a reason the instructor recognizes as a valid excuse for delay in completing the assignments. Unless the work missed is completed within a year from the date the mark is recorded, the I automatically changes to an F.
W—Withdrew.
WF—Withdrew Failing, from one class or from college.
WP—Withdrew Passing, from one class or from college.
CR—Credit. Does not affect quality points.
NC—No Credit. Does not affect quality points.
P—Pass, Successful Completion of the student teaching experience.

Quality Points

The quality of a student's work is indicated by quality points.

Candidates for graduation must have at least twice as many quality points as semester hours attempted; that is, a point-average of 2.00 on all college work and on all work completed at Fairmont State College. Quality points for grades A, B, C, D, are computed as follows:

A—Four (4) quality points for each semester hour of credit.
B—Three (3) quality points for each semester hour of credit.
C—Two (2) quality points for each semester hour of credit.
D—One (1) quality point for each semester hour of credit.

A student's grade average is determined by dividing the number of his quality points by the number of credit hours he has scheduled. No quality points are attached to grades F, FIW, and WF, but the credit hours for the courses in which these grades are received will be used in computing his grade average.

In order to be graduated, a candidate for a degree must have maintained a quality point average of 2.00 or better in all college courses and in all credit earned at FSC. An average of 2.00 must also be maintained in the major and minor fields of study. **If the student is in teacher education, he must attain an average of 2.20 in each teaching field and/or subject specialization.**

It is the student's responsibility to keep informed of his quality point standing. This information can be obtained at any time from the Registrar.

Grades earned in other institutions shall not be used to make up a deficiency of quality points in this institution.

Credit-No Credit Option

Any student who has completed 58 or more semester hours of credit may elect one course per semester on a credit—no credit basis, such courses to be considered as part of the regularly scheduled loan. A maximum of 15 semester hours may be completed under this option.

Courses selected must not be included in the general studies requirements, must not be in the student's major or minor or related courses for non-teachers, must not be in 7-12, 1-12, 7-9, 1-9, the diversified field, and professional education for teacher education students.

Credit—no credit earned under this option will be recorded but will not be reflected in the quality point index. Credit courses will count toward graduation.

Selection of a course for credit—no credit must be made at registration with the approval of the student's academic adviser and may not be changed after the close of the registration period.

Classification of Students

Students who have completed the high school or a secondary course and not more than 25 hours of work are classified as freshmen.

Students who have completed 26 hours but not more than 57 hours of college work are classified as sophomores.

Students who have completed 58 hours but not more than 89 hours of college work are classified as juniors.

Students who have completed 90 hours or more of college work are classified as seniors.

Numbering of Courses

Courses for freshmen (100 series) and sophomores (200 series) constitute the lower level of curriculum. Courses numbered 300-499 are primarily for juniors and seniors. All General Studies Requirements consist of lower level courses which should be completed as far as possible by the end of the sophomore year.

It is strongly advisable to take at least eight hours of General Studies Requirements each semester until they are completed.

Assignments and Credits

1. Semester Load: Students must petition the Registrar for permission to carry more than 18 semester hours. To be eligible for permission, a student must have an overall B average or a B average for the preceding semester. Exceptions may be made if the student is in the last semester before graduation or before the initial performance practicum.

2. Late Registration Fees: See schedule of fees for late registration. Late registrants often fail to obtain satisfactory schedules, for the policy of the College is to give priority to students who register on the dates for regular registration.

3. Schedule Changes: Students may not add new classes to their schedule after the period of registration has ended.

4. Withdrawal from College: A student desiring to withdraw from the College will apply at the Registrar's Office. Here forms will be obtained, which when completed with the proper signatures and returned to the Registrar's Office, will constitute an official withdrawal. The instructor records on the Final Grade Report to the Registrar, a W for students withdrawing during the first one-third of a semester or one-third of a summer term. In case the official drop notice is issued after one-third of the semester or term, the instructor will record either WP or WF at the end of the period of enrollment.

5. Withdrawal from Class: During the first third of a semester or term students may drop one or more classes with a grade of W being recorded. From the end of one-third of a semester to the end of two-thirds of a semester or term, students may drop one class only. A grade of W will be recorded for the dropped class. If additional classes are dropped during this period, grades of WF will be recorded. After the end of two-thirds of a semester or term, no withdrawals from individual classes may be made.

6. Repeating A Course: If a student earns a grade of D or F in any course taken no later than the semester or summer term during which he attempts the sixtieth semester hour, and if he repeats this course prior to the receipt of a baccalaureate degree, the original grade shall be disregarded and the grade or grades earned when the course is repeated shall be used in determining his grade point average. The original grade shall not be deleted from the student's record. A student may not repeat a course in which he has earned a C or better.

Students who began college study prior to the fall semester of 1968 or students whose records include an original grade which was reactivated following the second repeat of a course must make application to the Registrar to assure their coverage by this regulation.

7. Minimum Residence Requirements for Graduation: For a degree, at least one year's work in residence is required, one semester of which must be in the senior year. A "year of residence" must represent not less than 32 week's work in residence and 32 hours credit. A semester is defined as a minimum of 16 weeks and 16 hours credit.

Exception is made in the case of any student who has completed three years of required work in Fairmont State College and who wishes to complete the senior year by substituting approved credit earned subsequently in a college of medicine or dentistry.

8. Application for Graduation: Candidates for graduation must make official application for a degree at least 45 days before Commencement Day. Applications will be filed with the Registrar.

9. Assignment and Credits: Regularly enrolled students who desire to complete work at another accredited institution on a transient basis must secure written permission of the Registrar. Transient credit completed without permission will not be accepted.

Attendance and Absences

Each student is responsible for familiarizing himself with the college absence policies which are to be found in the published *Student Handbook*.

Advisor System

Each student is assigned an academic advisor when he first enrolls at the College. If the student desires to change his major field of study, he should contact the Associate Dean of Academic Affaris for reassignment. Students who are not ready to select a major upon entrance will be assigned to special advisors. It is to the academic advisor that a student should take problems relating to degree requirements, pre-registration, and registration.

Grade Reports

The grades of all students are reported by each faculty member to the Registrar at the middle and end of the semester. Faculty advisors are provided complete grade reports at each reporting period. Students receive grade reports at mid-semester and at the end of the semester. Mid-term grade reports are not made during summer school.

Probation and Suspension

1. A student whose cumulative academic record shows a deficit of 10 or more quality points automatically is placed on probation.

2. A student is removed from probation when he completely removes his grade point deficiency and achieves an average of 2.0 or better.

3. All students, regardless of their academic standing at the completion of their freshman year, will be permitted to enroll in the sophomore year (students who have attempted 26 hours but not more than 57 hours of college work).

4. A student who has been on academic probation for one semester or longer and who is 20 or more points deficient and classified as a sophomore or above will be suspended. The suspension list is compiled at the conclusion of each spring semester. The suspension period is one semester. Summer terms are not counted in the suspension period.

5. While in attendance as a junior or senior (having attempted 58 semester hours or more) and having been on probation for one semester or longer and a quality point deficiency of 20 or more, a student is suspended.

6. Suspension will be waived temporarily for those who wish to attend either or both summer sessions immediately following notice of suspension. If the quality point deficiency is reduced to 19 or fewer, students will be permitted to continue into the fall semester. A student who fails to reduce his quality point deficiency, as required, during this waiver period will be suspended prior to the beginning of the fall semester.

7. During the semester on suspension, a student is permitted to take a maximum of six credit hours.

8. After one-semester period of suspension, a student may apply for full-time readmission. A readmitted student or a transfer student on probation may continue in school as long as he incurs no additional quality point deficit.

9. A student twice suspended may petition the Admissions and Credits Committee for readmission. The Committee will approve those persons for readmission whose aims and circumstances provide clear indication of probable success in college.

10. Three suspensions from any institution (or institutions) of higher education are final.

11. The status of any student transferring from another institution of higher education will be determined in accordance with the above regulations.

English Performance Evaluation

All students who are candidates for baccalaureate degrees must attain a grade of C or above in English 108 in order to prove their competence in the use of the English language. This is a requirement for graduation.

Dean's List

Students who registered for twelve or more hours and receive a grade point average of 3.2 or better are considered honor students and named to the Dean's List.

Graduation With Honors

Candidates for graduation with a Bachelor's Degree who have achieved special distinction in academic work are graduated with honors. Honors are determined by the cumulative quality point average of a student's work at graduation. Three grades of honors are recognized: **cum laude** for a point average of 3.2 to 3.49; **magna cum laude** for a point average of 3.50 to 3.74; and **summa cum laude** for a point average of 3.75 or better. Averages are based upon the entire academic record of the student. Candidates for graduation with an Associate degree who maintain a grade point average of 3.2 or better will receive the designation of "With Honors" on their diplomas and "Honors" on the Commencement program.

General Regulations

Each student is responsible for familiarizing himself with the published *Student Handbook* concerning student rights and responsibilities and matters of academic dishonesty such as cheating and plagiarism.

Transcripts

Every student at Fairmont State College is entitled to one official transcript of his record free; for each additional copy a fee of one dollar ($1.00) will be charged. **No student who fails to meet his financial obligations to the College, or any department of the college, will be given a transcript.**

An application for a transcript of credit should furnish the date of last attendance at Fairmont State College, social security number, and a married woman should give both her maiden and married names. All requests for transcripts should be sent directly to the Registrar.

Requirements for Bachelor of Arts and Bachelor of Science Degrees

The Bachelor of Arts in Education requirements for teaching fields and specializations are also included in this section under the appropriate academic discipline.

Candidates for the Bachelor of Arts and Bachelor of Science degree must complete the General Studies Requirements and a major and a minor. Students majoring in Engineering Technology are not required to have a minor. The major and minor include all courses specified in this catalog as required and all other courses attempted in the disciplines designated as the major and minor.

The minimum credit required for graduation is 128 semester hours with an average of 2.0 quality points. In all cases the quality point average for a major or minor must be 2.0 or better with the exception of a B.A.Ed. degree which requires at least a 2.2.

General Studies Requirements may also meet major or minor requirements. No course, however, may be counted more than once in meeting the semester hours required for graduation. For example, general studies requirements in English will also satisfy requirements for a major or minor in English.

Twelve hours of one foreign language is a general requirement for the Bachelor of Arts. Three hours of this requirement may be waived for each unit of the language presented as entrance credit, provided that the student is competent to continue the study of the language at the appropriate college level.

General Studies Requirements for the Bachelor of Arts and the Bachelor of Science Degrees

36 Hours for Bachelor of Science Degrees
48 Hours for Bachelor of Arts Degrees

English 104*, 108**, 250, 260		12
Fine Arts		2
Art 255	2	
or Music 205	2	
History and Social Science		12
Economics 200 or 201	3	
Geography 210	3	
History 107	3	
History 108	3	
***History 100	3	
History 111	3	
History 112	3	
Political Science 103	3	
Psychology 101	3	
Sociology 110	3	
Foreign Language (B.A. degree only)		12
French, German, or Spanish 101, 102, 201, 202 (another foreign language may be substituted with permission)		
Physical Education		1
Any basic activity course.		
****Science and Mathematics		6
Biology 101, 102	6	
Chemistry 101, 102	8	
Chemistry 105, 106	10	
Geology 101, 102	6	
Mathematics	6	
Physics 101, 102	8	
Physical Science (select any three)	6	
100 Scientific Methodology	2	
101 Astronomy	2	
102 Chemistry	2	
103 Geology	2	
104 Physics	2	
105 History of Physical Science	2	
Speech 101		3

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*Foundations 101, Basic Communications is strongly recommended for those who do not meet certain minimum standards prior to enrolling in English 104.

**A grade of C or above in English 108 is required for graduation.

***History 100 should not be taken by those who plan to major or minor in History or by those who may transfer to the B.A. Education degree in elementary education or social studies field. Credit will not be given for History 111 and/or History 112 to those who have taken History 100.

****This 6 hour requirement must be taken in the same discipline.

ART

(Division of Fine Arts)

Fairmont State College Department of Art provides a program of study for the preparation of teachers in the visual arts, leading to the B.A. degree in Education and a minor in a non-teaching degree. The art curriculum and activities are committed to provide the highest professional education for the art teacher, the creative artist and the scholar of the arts, and to play a major role in the cultural life of the college campus and the community.

The members of the Art Department faculty are professional artists as well as educators, exhibiting their work in state, regional and national exhibitions. Because of an excellent student-teacher ratio, the instructors are able to spend much time with individual instruction and counseling. As a candidate for the teaching degree, the student is not only trained in the skills of the creative artist, but is also given the background and training that will enable him to relate to and communicate with students.

Minor 24 sem. hrs.

History of Art Courses (See Courses of Instruction)	5
Studio Work Courses (See Courses of Instruction)	19

Model Schedule

Semester 1		**Semester 2**	
Art 255	2 hrs.	Art Studio	3 hrs.
Semester 3		**Semester 4**	
History of Art	3 hrs.	Art Studio	3 hrs.
Semester 5		**Semester 6**	
Art Studio	3 hrs.	Art Studio Art Studio	2 hrs. 2 hrs.
Semester 7		**Semester 8**	
Art Studio	3 hrs.	Art Studio	3 hrs.

Curricula for Teaching Fields and Specializations

Art Comprehensive Grades 1-12 **57 Sem. Hrs.**

Required Courses

*Art	140	Art Structure and Applied Design	3
*Art	141	Art Structure and Applied Design	3
*Art	142	Drawing	3
*Art	241	Drawing from Life	3

*Art	255	History and Appreciation of Art	2
*Art	261	Painting	3
Art	262	Painting	3
Art	278	Ancient and Medieval Art	3
Art	283	Modeling and Sculpture	3
Art	284	Modeling and Sculpture	3
*Art	353	Elementary Art Education I	2
Art	354	Elementary Art Education II	2
Art	363	Painting in Watercolor	3
Art	377	Italian and Northern Renaissance Art	3
Art	378	19th Century and Contemporary Art	3
Art	383	Ceramics	3
Art	384	Ceramics	3
Art	470	Senior Exhibit	1
Art	431	Methods and Materials in Teaching Art	2
Electives			6

Model Schedule for Art Comprehensive Grades 1-12

Semester 1		Semester 2	
Art 140 Design I	3	Art 141 Design II	3
Art 142 Drawing	3	Art 241 Drawing From Life	3
Art 255 Art Appre.	2	Art 261 Painting	3
English 104	3	English 108	3
Science/Math	3	Science/Math	3
HPER	1	Elective	1
	15		16

Semester 3		Semester 4	
Art 262 Painting	3	Art 383 Ceramics	3
Art 278 Art History	3	Art 377 Art History	3
Art 353 Ele. Art Ed. I	2	Art 354 Art Ed. II	2
Social Science	3	Social Science	3
English 250	3	Education 250	2
Education 200	2	Speech 210	2
	16		16

Semester 5		Semester 6	
Art 384 Ceramics	3	Art 363 Watercolor	3
Art 378 Art History	3	Art 284 Sculpture	3
Art 283 Sculpture	3	Art Elective	3
Social Science	3	Social Science	3
Education 302	3	Education 303	3
Elective	2	Elective	2
	17		17

Semester 7		Semester 8	
Art 470 Senior Exhibit	1	Initial Performance Practicum	15
Art Elective	3		
Any General Studies Course	3		
English 260	3		
Electives	6		
	16		

Art Single Teaching Field Grades 7-12 **38 Sem. Hrs.**

Required Courses

*Art	140	Art Structure and Applied Design	3
*Art	141	Art Structure and Applied Design	3

*Art	142	Drawing	3
Art	241	Drawing from Life	3
*Art	255	History and Appreciation of Art	2
*Art	261	Painting	3
Art	278	Ancient and Medieval Art	3
Art	283	Modeling and Sculpture	3
Art	354	Elementary Art Education II	2
Art	363	Painting in Watercolor	3
Art	377	Italian and Northern Renaissance Art	3
Art	378	19th Century and Contemporary Art	3
Art	383	Ceramics	3
Art	470	Senior Exhibit	1

Model Schedule for Art Single Teaching Field Grades 7-12

Semester 1

Art 140 Design I	3
Art 142 Drawing	3
Art 255 Art Appre.	2
English 104	3
Science/Math	3
HPER	1
	15

Semester 2

Art 141 Design II	3
Art 241 Draw. From Life	3
English 108	3
Science/Math	3
Second Field	3
	15

Semester 3

Art 261 Painting	3
Art 278 Art History	3
Art 283 Sculpture	3
English 250	3
Social Science/History	3
Education 200	2
	17

Semester 4

Art 383 Ceramics	3
Art 377 Art History	3
Social Science/History	3
Speech 210	3
Education 250	3
Elective	3
	17

Semester 5

Art 378 Art History	3
Art 383 Ceramics	3
Social Science/History	3
Education 302	3
English 260	3
	15

Semester 6

Art 354 Art Education II	2
Art 363 Watercolor	3
Social Science/History	3
Education 303	3
Second Field	3
Elective	2
	16

Semester 7

Art 470 Senior Exhibit	1
Electives	14
General Studies Requirements	3
	18

Semester 8

Initial Performance Practicum	15

Art Subject Specialization Grades 1-9 or 7-9

Required Courses 30 Semester Hrs.

*Art	140	Art Structure and Applied Design	3
*Art	141	Art Structure and Applied Design	3
*Art	142	Drawing	3
*Art	241	Drawing from Life	3
*Art	255	History and Appreciation of Art	2
*Art	283	Modeling and Sculpture	3
*Art	353	Elementary Art Education I	2

*Art	354	Elementary Art Education II	2
*Art	363	Painting in Watercolor	3
Electives			6

*Courses marked with an asterisk must be completed before admission to the Initial Performance Practicum.

Model Schedule for Art Courses for Art Subject Specialization Grades 1-9, 7-9.

Semester 1		Semester 2	
Art 140 Art Structure & Design	3	Art 141 Art Structure & Design	3
Art 142 Drawing	3	Art 241 Drawing from Life	3
Semester 3		**Semester 4**	
Art 255 History & Appreciation of Art	2	Art 283 Sculpture	3
Art 353 Elem. Art Education I	2	Art 354 Elem. Art Education II	2
Semester 5		**Semester 6**	
Art 363 Watercolor	3	Art Elective	3
Semester 7		**Semester 8**	
Art Elective	3		

Courses of Instruction

Art

140. Art Structure and Applied Design **three hours**

Introductory course in the principles of design applicable to various media and techniques used in studio problems.

141. Art Structure and Applied Design **three hours**

Further study of the principles of design, techniques and media with emphasis on the individual's creative development.

142. Drawing **three hours**

The development of technical skills in the use of various media for a fundamental knowledge stressing observation, memory training, and composition.

241. Drawing from Life **three hours**

Drawing from the posed model accompanied by analytical studies of anatomy. PR: 142.

255. History and Appreciation of Art **two hours**

Considers the social and historical backgrounds and modern developments in various art fields.

261. Painting **two-three hours**

Introductory course in painting, exploring various painting media and techniques. PR: 140, 141, 142 or instructor's consent.

262. Painting **two-three hours**
Continuation of 261 emphasizing individual creative development. PR: 261 or consent of instructor.

278. Ancient and Medieval Art **three hours**
History of Art from Prehistoric times to 1400 A.D. An analysis of the various artistic expressions resulting from the philosophic, religious and sociological conditions.

283. Modeling and Sculpture **two-three hours**
Introductory course using clay modeling, plaster, and metal sculpture.

284. Modeling and Sculpture **two-three hours**
Advanced work in various sculptural media: metal casting, carving, constructions, etc. PR: 283 or consent of the instructor.

341. Graphics **two-three hours**
Introduction to various techniques in printmaking as an artistic expression. PR: 142 or consent of instructor.

353. Elementary Art Education I **two hours**
Experiences and theory design to prepare students to teach art on the kindergarten-primary level. Directed experiences in two and three dimensional media such as drawing, painting, poster, sculpture, and design using various media.

354. Elementary Art Education II **two hours**
The theories, philosophy, and methods of teaching art education. Experiences supplemented—with references to the needs of students in teaching grades 5-9.

361. Painting in Oil **two-three hours**
Development of individual expression in painting. PR: 262 or consent of instructor.

362. Painting in Oil **two-three hours**
Continuation of 361. PR: 361 or instructor's consent.

363. Painting in Watercolor **two-three hours**
Introductory course in the fundamentals and techniques of watercolor. PR: 140, 141, 142 or instructor's consent.

364. Painting in Watercolor **two-three hours**
Continuation of 363 emphasizing individual creative development. PR: 363 or consent of instructor.

376. Civilization—A Personal View **three hours**
An interdisciplinary course using Kenneth Clark's films depicting the cultural life of western man.

377. Italian and Northern Renaissance Art **three hours**
History of painting, sculpture, architecture, and the minor arts in Italy, the Netherlands, Germany, Spain, France, and England from circa 1400 A.D. to the 19th century. PR: Art 255.

378. Nineteenth Century and Contemporary Art **three hours**
History of art from the 19th century to the present with an analysis of art movements. PR: Art 255.

383. Ceramics **two-three hours**
Introduction to basic ceramic techniques: hand construction, potters' wheel, glazing and kiln firing.

384. Ceramics **two-three hours**
Advanced work in ceramic sculpture, wheel thrown ceramics, glaze theory, kiln firing and kiln construction. PR: 383 or instructor's consent.

431. Methods and Materials in Teaching Art **two hours**
Planning and application of problems for junior and senior high schools. Coordinated with the Education Department and the public schools. Designed for students who are practice teaching or for teachers in service. Taken during the Initial Performance Practicum.

461. Advanced Painting in Oil **two-three hours**
PR: Art 362 or consent.

462. Advanced Painting in Oil **two-three hours**
PR: Art 461 or consent.

463. Studio in Painting **two-three hours**
The student is permitted to select the medium and then experimentally exploit all the technical and creative possibilities that it permits. PR: Art 362.

464. Studio in Ceramics **two-three hours**
The student is permitted to select the medium and then experimentally exploit all the technical and creative possibilities that it permits. PR: Art 384.

465. Studio in Sculpture **two-three hours**
The student is permitted to select the medium and then experimentally exploit all the technical and creative possibilities that it permits.

470. Senior Exhibit **one hour**
Required of every art major during his senior year: to organize a formal gallery exhibition of works selected from his college work.

BIOLOGY

(Division of Science)

The Department of Biology, Division of Science, program is designed to service both undergraduate non-majors and those pursuing major areas of study in Biological Science leading to either the A.B. in Education or the Bachelor of Science degrees as well as preparatory programs in pre-professional areas. The Department employs a highly specialized staff capable of instructing in specialty areas from Classical Biology to Molecular Biology. Field research and field studies are stressed highly as an integral part of the overall program. Facilities and equipment are available for independent research by students and/or staff.

The Department of Biology is located on the fourth floor of Hunt-Haught Hall which was completed in the summer of 1971. This modern facility consists of eight student laboratories, with modern equipment including closed-circuit TV, three research rooms, a photographic dark-room, animal room, and plant house.

The biology curriculum for both the Bachelor of Science and A.B. in Education has recently been revised so that students are required to complete 8 basic courses in biology designed to provide a comprehensive understanding of biology. Electives may be chosen at the student's discretion.

Advanced undergraduate students are regularly employed as paid laboratory assistants in most classes.

Bachelor of Science Degree

Major 54-56 sem. hrs.

Required Courses 25 Sem. Hrs.

Biology	220	Invertebrate Zoology	4
Biology	221	Vertebrate Zoology	4
Biology	230	General Botany	4
Biology	295	Cell Biology	3
Biology	370	Plant Physiology	4
Biology	380	Genetics	3
Biology	210	Field Biology	
		or	
Biology	315	Field Zoology	
		or	
Biology	330	Field Botany	3

Electives 10 Sem. Hrs.

Required Related Courses 19-21 Sem. Hrs.

Chemistry 101, 102	8
or	
Chemistry 105, 106	10
Physics 101, 102	8
Math 112 or higher	3

Minor 25 sem. hrs.

Biology	220	Invertebrate Zoology	4
Biology	221	Vertebrate Zoology	4
Biology	230	General Botany	4
Biology	295	Cell Biology	3

Biology	370	Plant Physiology	4
Biology	380	Genetics	3
Biology	210	Field Biology	
		or	
Biology	315	Field Zoology	
		or	
Biology	330	Field Botany	3

Model Schedule
Bachelor of Science—Major in Biology

Semester 1

*Invertebrate Zoology 220 or *Vertebrate Zoology 221 or *General Botany 230	4
****Chemistry 105	5
English 104	3
Psychology 101	3
HPER 114	1
	16

Semester 2

*Invertebrate Zoology 220 or *Vertebrate Zoology 221 or *General Botany 230	4
****Chemistry 106	5
English 108	3
History and Soc. Science	3
	15

Semester 3

Cell Biology 295	3
*Invertebrate Zoology 220 or *Vertebrate Zoology or *General Botany	4
Art 255 or Music 205	2
English 250	3
History or Social Science	3
	15

Semester 4

English 260	3
History or Soc. Science	3
Math 112 or higher	3-4
Speech 101	3
***Electives	3
	15-16

Semester 5

Genetics 380	3
**Field Biology	3
*Electives	12
	18

Semester 6

Plant Physiology 370	4
***Electives	13
	17

Semester 7

Physics 101	4
***Electives	12
	16

Semester 8

Physics 102	4
***Electives	12
	16

****One unit of high school Chemistry is required for Chemistry 105, 106. Students lacking high school Chemistry must enroll in Chemistry 101 and 102.

***10 hours of electives must be selected from the Biology curriculum. Elective hours should also include courses required for the minor.

**Field Zoology 315 or Field Botany 330 may be substituted for Field Biology 210. However they are only taught during summer terms.

*No specific course sequence is required for Biology 220, 221, and 230. These may be selected by choice or as class enrollment dictates.

Model Schedule
Bachelor of Science Degree—Minor in Biology

Semester 1		**Semester 2**	
*Invertebrate Zoology 220 or		*Invertebrate Zoology 220 or	
*Vertebrate Zoology 221 or		*Vertebrate Zoology 221 or	
*General Botany 230	4	*General Botany 230	4
***Chemistry 101	4	***Chemistry 102	4
	8		8

Semester 3		**Semester 4**	
*Invertebrate Zoology 220 or		***Math 112 or higher	3-4
*Vertebrate Zoology 221 or			
*General Botany 230	4		
	4		3-4

Semester 5		**Semester 6**	
**Field Biology 210	3	Plant Physiology 370	4
Cell Biology 295	3	Genetics 380	3
	6		7

Semester 7		**Semester 8**	
***Physics 101	4	***Physics 102	4
	4		4

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*No specific course sequence is required for Biology 220, 221 or 230. These may be selected by student's choice or as class enrollment dictates.

**Field Biology 210 may be substituted with Field Zoology 315 or Field Botany 330. Biology 315 and 330 *are taught during summer terms only.*

***Courses recommended, not required.

Curricula for Teaching Fields and Specializations in Biology

Biology, General Science Comprehensive, Grades 7-12				**55 Sem. Hrs.**
Required in Biological Science				25 Sem. Hrs.
Biology	220	Invertebrate Zoology	4	
Biology	221	Vertebrate Zoology	4	
Biology	230	General Botany	4	
Biology	295	Cell Biology	3	
Biology	370	Plant Physiology	4	
Biology	380	Introduction to Genetics	3	
Biology	210	Field Studies in Biology	3	
		or		
Biology	315	Field Zoology	3	
		or		
Biology	330	Field Botany	3	
Electives in Biological Science				7 Sem. Hrs.
Required Related Courses				23 Sem. Hrs.
Chemistry	101, 102	General Chemistry	8	
Physics	101	Introduction to Physics	4	
Geology	102	General Geology	3	
Physics	202	Astronomy	3	
Mathematics	112 or higher		3	
Science	431	Methods and Materials in Teaching Science	2	

Biological Science Single Teaching Field, Grades 7-12 **44 Sem. Hrs.**

Required in Biological Science

Biology	220	Invertebrate Zoology	4
Biology	221	Vertebrate Zoology	4
Biology	230	General Botany	4
Biology	295	Cell Biology	3
Biology	370	Plant Physiology	4
Biology	380	Introduction to Genetics	3
Biology	210	Field Studies in Biology	3
		or	
Biology	315	Field Zoology	3
		or	
Biology	330	Field Botany	3

Electives in Biological Science 4 Sem. Hrs.

Required Related Courses

Chemistry	101, 102	General Chemistry	8
Physics	101	Introduction to Physics	4
Geology	102	General Geology	3

Model Schedule
Comprehensive 7-12 and *Single-Teaching Field 7-12

Semester 1

**Invertebrate Zoology 220 or **Vertebrate Zoology 221 or **General Botany 230	4
Chemistry 101/105	4-5
English 104	3
Psychology 101	3
HPER	1
	15-16

Semester 2

**Invertebrate Zoology 220 or **Vertebrate Zoology 221 or **General Botany 230	4
English 108	3
History-Soc. Science	3
Geology 102	3
Education 200	3
	16

Semester 3

Invertebrate Zoology 200 or Vertebrate Zoology 221 or General Botany 230	4
English 250	3
Education 250	3
Cell Biology 295	3
Art or Music 205/255	2
Speech 210	3
	18

Semester 4

Math 112 or higher	3-4
Education 302	3
English 260	3
History or Soc. Sci.	3
****Electives	4
	16-17

Semester 5

***Biology 210	3
History—Soc. Sci.	3
Education 303	3
Physics 202	3
****Electives	6
	18

Semester 6

Plant Physiology 370	4
Genetics 380	3
****Electives	9
	16

Continued

Semester 7		Semester 8	
Physics 101	4	Initial Performance Practicum	15
****Electives	12		
	16		15

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*Single teaching field same as comprehensive but omit Physics 202 and Math 112. Electives required from the biology curriculum are 4 hours.

**No specific course sequence is required for Biology 220, 221, or 230. These may be selected by choice or as class enrollment dictates.

***Field Biology 210 may be substituted with Field Zoology 315 or Field Botany 330. Both of these courses are taught during summer term only.

****A minimum of 7 hours of electives must be selected from the biology curriculum for the comprehensive degree.

Courses of Instruction
Biology

101. Introduction to Biology **three hours**
Introductory studies concerning the following areas: chemical and physical properties of the cell, genetics, and some attention given to ecological relationships. Two lectures and one two-hour laboratory per week. Not accepted toward fulfilling any Biology degree requirements.

102. Introduction to Biology **three hours**
A study of plants and animals emphasizing basic life functions and their interrelationships to a changing environment. Two lectures and one two-hour laboratory per week. Not accepted toward any Biology degree requirements.

150. Human Sexuality **three hours**
The study of the various aspects of human reproduction. Anatomical, physiological, ecological and sociological areas of reproduction will be covered. It is designed as a general education course for all students. Biology 150 will not be accepted toward fulfilling specific requirements for any degree in biology.

200. Ornithology **three hours**
Lecture, field and laboratory studies on the anatomy, identification, migration, nesting and food habits of birds. Consideration is given to the economic, aesthetic and ecological significance. Two lectures and one two-hour field and/or laboratory periods per week.

205. Technical Microbiology **three hours**
Designed for the nursing program to emphasize the history of microbiology, microbial morphology and structure; microbial growth and physiology; environmental effects on bacteria; inhibition and killing of bacteria; virulence, pathogenicity, and inevasiveness of microbes; modes of disease transmission; pathogenic microbes, resistence and immunity, the techniques of isolation, handling, culturing, identifying bacteria and the inhibition of bacteria to emphasize safety, cleanliness, and responsibility are taught in the laboratory. Two lectures and one two-hour laboratory each week. (Biology 224 will not substitute for Biology 205).

210. Field Studies in Biology **three hours**
A survey stressing the taxonomy, distribution and habits of representative forms of the area. Special emphasis on collection, identification, and preservation of some of the more representative forms. One hour lecture and/or 4 hours of laboratory and field work per week. PR: 101, 102, or 220, 230.

215. Bio-Photography **two hours**
A course designed to familiarize students with the fundamentals of photography and its many applications in the field of biology, including photomicrography. Open to

students who have an interest in both photography and biology. PR: 8 hours of Biology courses.

220. Invertebrate Zoology **four hours**
Two lectures and two two-hour laboratories each week. Facts and principles fundamental to an understanding of the invertebrate animals will be presented. This course is designed for Biology majors, minors and pre-professionals.

221. Vertebrate Zoology **four hours**
Two lectures and two two-hour laboratories each week. Facts and principles fundamental to an understanding of vertebrate animals will be presented.

224. Microbiology **three hours**
Two lectures and one two-hour laboratory each week. The techniques of isolating and identifying bacteria are considered. Attention is given to the several types of disease-producing microorganisms and methods of control. This is a general course designed to give the student an understanding of the importance of microorganisms in the life of man. PR: 230.

230. General Botany **four hours**
Two lectures and two two-hour laboratories each week. The first part of the semester is given to the study of the structures and functioning of the seed plant. The second part includes a survey of both lower and higher forms of plants with emphasis on reproductive structures. Basic to all other botany courses.

242. Bio-Ecology **three hours**
This course constitutes a study of the relationship of organisms to their environment. The edaphic, climatic, and biotic factors are given consideration. Human ecology and conservation are presented where pertinent. PR: 101, 102, or 220, 230.

250. Introduction to Entomology **three hours**
One hour lecture and four (4) hours of lab and/or field work per week. Lecture, laboratory, and field studies on the anatomy, physiology, distribution, and identification of insects. Major emphasis will be placed on identification and economic importance.

295. Cell Biology **three hours**
An introductory course in cellular physiology emphasizing functions common to all living forms of matter. The physical and chemical properties of protoplasm will be studied to show their relationship to structure, morphology, and development of cells and their significance in the life processes relating Form and Function. PR: Chemistry 101, 102 or Chemistry 105, 106.

315. Field Zoology **three hours**
Primarily for those who teach or intend to teach biology. This course aims to familiarize students with the animal life of the State in its natural surroundings and includes the collection, identification, and study of habits of the various forms found in this region. PR: 101, 102, or 220, 221. Offered only in summer.

330. Field Botany **three hours**
Designed primarily for those students who plan to teach. The various groups of plants are considered in the field and laboratory with emphasis on the seed plants. Some attention is given to ecology. PR: 101, 102 or 230 or consent of instructor. Offered only in summer.

340. The Plant Kingdom **three hours**
Two lectures and one two-hour laboratory each week. This course deals with the structural characteristics of the great plant groups through the Bryophytes. Their organization, development, and reproductive structures are considered in detail. Teaching materials are compiled and techniques are developed. There are field trips on occasion. PR: 230.

341. The Plant Kingdom **three hours**
Two lecturers and one two-hour laboratory each week. Continuation of the Plant Kingdom, 340, but may be taken as an independent unit. This course covers the vascular plants including the ferns, gymnosperms, and angiosperms. PR: 230.

342. Mycology **four hours**
The course constitutes a study of the development, morphology and taxonomy of the fungi and familiarizes the student with the relation of fungi to human affairs. Two lectures and two two-hour laboratories weekly. PR: 230.

350. Comparative Anatomy of Vertebrates **four hours**
Two lectures and two two-hour laboratories each week. The anatomical similarities and differences among representative vertebrate animals will be given to evolutionary structural advancements.

360. Biochemistry **three hours**
A study of the general principles of biochemistry including the metabolism of carbohydrates, proteins, and fats. Biosynthetic pathways, enzymatic mechanisms, biological oxidation, and other aspects of the subject are considered. PR: Chemistry 101 and 102 or higher, Biology 230 and 221. (Chemistry majors & minors by consent).

370. Plant Physiology **four hours**
Two lectures and two two-hour laboratories each week. All of the physiological processes of plants are considered; ascent of sap, transpiration, food and bio-chemical synthesis, respiration, translocation, and growth and development. PR: 230, 295.

380. Introduction to Genetics **three hours**
Principles of inheritance; chemical nature, structure and function of genetic materials. Implications to population and human genetics. Two hours lecture and one two-hour laboratory per week. PR: 101, 102, or 220 or 230.

381. Principles of Evolution **three hours**
A study of the principles of organic evolution; physical, chemical and biological phenomena related to the understanding of the long term changing process of life. Two lectures and one two-hour laboratory per week. PR: 101, 102, or 220 or 230.

411. Histology **four hours**
Two lectures and two two-hour laboratory periods each week. An analysis of the arrangement of fundamental animal tissues to differentiate between cell types and study their relationships to each other in the functioning organism. Also, this course will include histological technique to give the student an introduction to the preparation of animal tissues for study. PR: 221 or 350.

415. Hydrobiology **four hours**
A study of the physical, chemical, and biological aspects of the various aquatic habitats. Emphasis is on the ecology of the various communities, with development of techniques in field ecology which may apply. Two lectures and two two-hour laboratory periods per week. PR: 210, 220, 230.

418. Plant Pathology **three hours**
This course constitutes a study of the causal agents of plant diseases and their morphological and physiological effects upon the host. Consideration is also given to the control measures involved. Two lectures and one two-hour laboratory weekly. PR: 230 and 342 or consent of instructor.

420. Vertebrate Embryology **four hours**
Two lectures and two two-hour laboratories each week. This course offers an introductory study of the developments of the vertebrates. Emphasis of study is chiefly upon the frog, chick, and pig. PR: 221 or 350.

440. Plant Anatomy **three hours**

Two lectures and one two-hour laboratory each week. Attention is given to the fundamental tissue organization of the higher plants. Development and differentiation of cell type and structures are considered as they relate to the functioning of the organism as a whole. PR: 230.

450. Comparative Physiology **four hours**

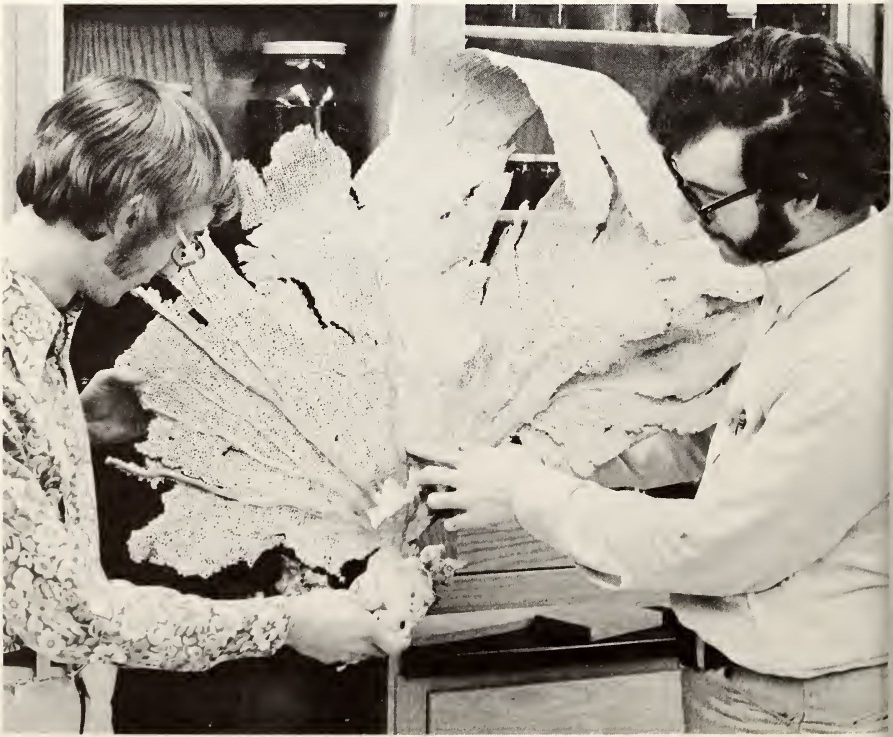
A detailed study of the significance of the chemical properties of protoplasm in life processes including nutrition, respiration, circulation, excretion, nervous, reproduction and feed back mechanisms of control of synthesis, release, hyper and hypo conditions, chemical nature and effects of the secretions and synergistic interactions. Two lectures and two two-hour laboratory periods per week. PR: Biology 295 and 220 or 221 or 350.

490. Seminar in Biology **one hour**

All biology majors, in the B.S. program either in their junior or senior year, will meet for one hour each week, for one semester. Each student will participate at least once during the term by reviewing a pertinent topic of biological significance for his fellow participants. PR: 20 hours of biological courses and consent.

495. Problems in Biological Sciences **two hours**

This course is designed for students who have interest in a specific problem in biology. It should not be used as a means of meeting requirements but rather as a research course that goes beyond the usual courses in developing the student. PR: 20 hours of biological courses and consent.



CHEMISTRY

(Division of Science)

Three programs are available for students who wish to specialize in chemistry:

1) The B.S. degree with a major in chemistry provides a well-balanced program of courses in the major fields of chemistry, as well as mathematics and physics. A student completing this program will be able to compete with graduates of most colleges and universities for positions in industry, federal agencies, and graduate schools in chemistry.

2) The A.B. degree in chemistry includes a less rigorous grounding in mathematics but provides background suitable for employment in chemical or health-related agencies or industrial laboratories. It is an ideal pre-medical curriculum or it can provide a stepping stone to graduate school in biochemistry, pharmacology, or related fields.

3) The A.B. in Education with a comprehensive teaching field in chemistry equips the graduate to teach chemistry and/or general science in any secondary school or to pursue graduate studies in Science Education.

Bachelor of Science Degree

Major 64-67 sem. hrs.

Required courses				44 Sem. Hrs.
Chemistry	105, 106	Chemical Principles	10	
	205	Analytical Chemistry	4	
	206	Instrumental Analysis	5	
	305, 306	Organic Chemistry	10	
	405, 406	Physical Chemistry	8	
	440	Intermediate Organic Chemistry	3	
	450	Intermediate Inorganic Chemistry	3	
	460	Seminar	1	
Related courses				20-23 Sem. Hrs.
Physics	101, 102	Introduction to Physics	8	
Mathematics through Calculus III			12-15	

Bachelor of Arts Degree

Major 54 sem. hrs.

Required Courses		39 Sem. Hrs.
Chemistry	105, 106, 205, 206, 305-306 (10 sem. hrs.), 340, 440, 450, 460	
Related courses		15 Sem. Hrs.
Physics	101, 102	
Mathematics	112, 115	

Minor 19-20 sem. hrs.

Required courses	
Chemistry	105, 106 and either 205, 206 or 305, 306 (10 hrs.)

Chemistry 101, 102, 103 may be substituted for 105, 106 in all programs.

Model Schedule Bachelor of Science in Chemistry

Semester 1		Semester 2	
Chemistry 105	5	Chemistry 106	5
Math 112	3	Math 115	4
English 104	3	English 108	3
History and Soc. Sci.	3	History or Soc. Sci.	3
Physical Education	1	Art 255/Music 205	2
	15		17

Semester 3		Semester 4	
Chemistry 205	4	Chemistry 206	5
Math 116	4	Math 315	4
Physics 101	4	Physics 102	4
History and Soc. Sci.	3	History or Soc. Sci.	3
	15		16

Semester 5		Semester 6	
Chemistry 305	5	Chemistry 306	5
Math 316	4	English 260	3
English 250	3	Speech 101	3
Minor and or Elective	6	Minor	3
		Chemistry 401*	2
	18		16

Semester 7		Semester 8	
Chemistry 405	4	Chemistry 406	4
Chemistry 440	3	Chemistry 450	3
Chemistry 402*	2	Chemistry 460	1
Minor and/or Elective	6	Chemistry 403*	2
		Minor and/or Elective	6
	15		16

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*Chemistry 401, 402 and 403 are electives.

Model Schedule Bachelor of Arts Degree in Chemistry

Semester 1		Semester 2	
Chemistry 105	5	Chemistry 106	5
Math 112	3	Math 115	4
English 104	3	English 108	3
German 101 or French 101	3	German 102 or French 102	3
Physical Education	1	History or Soc. Sci.	3
	15		18

Continued

Semester 3

Chemistry 205	4
English 250	3
German 201 or French 201	3
History and Soc. Sci.	3
Minor	3
	16

Semester 4

Chemistry 206	5
English 260	3
German 202 or French 202	3
History and Soc. Sci.	3
Art 255/Music 205	2
	16

Semester 5

Chemistry 305	5
Physics 101	4
History and Soc. Sci.	3
Minor	3
	15

Semester 6

Chemistry 306	5
Physics 102	4
Speech 101	3
Chemistry 401*	2
Minor	3
	17

Semester 7

Chemistry 340	3
Chemistry 440	3
Chemistry 402*	2
Minor and/or Elective	9
	17

Semester 8

Chemistry 450	3
Chemistry 460	1
Chemistry 403*	2
Minor and/or Elective	9
	15

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*Chemistry 401, 402 and 403 are electives.

Minor—Chemistry

Freshman or Sophomore Year

Chemistry 105	5
Chemistry 106	5

Sophomore or Junior Year

Chemistry 205	4
Chemistry 206	5
or	
Chemistry 305	5
Chemistry 306	5

Junior or Senior Year

Chemistry 401 Recommended, not required.	2

Curricula for Teaching Fields and Specializations in Chemistry

Chemistry, General Science Comprehensive grades 7-12 **48 Sem. Hrs.**

*Chemistry	105, 106	Chemical Principles	10
*Chemistry	205	Analytical Chemistry	4
*Chemistry	206	Instrumental Analysis	5
*Chemistry	305	Organic Chemistry	4
*Chemistry	340	Physical Approach to Modern Chemistry	3
*Physics	101, 102	Introduction to Physics	8

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*Physics	202	Astronomy	3
*Geology	101	General Geology	3
Biology	101, 102	Introduction to Biology	6
Science	431	Meth. & Mat. in Teaching Science (offered only second semester each year)	2

Chemistry 101, 102, 103 may be substituted for 105, 106.

Chemistry Single Teaching Field grades 7-12 **34 Sem. Hrs.**
Same as required in comprehensive program but omit Geology 101, Physics 202, Biology 101, 102.

*Courses marked with an asterisk must be completed prior to admission to the Initial Performance Practicum.

Model Schedule
Bachelor of Arts in Education Degree, Chemistry General Science Comprehensive, 7-12 and Chemistry Single Teaching Field, 7-12**

Semester 1		**Semester 2**	
Chemistry 105	5	Chemistry 106	5
English 104	3	English 108	3
Math 112*	3	Math 115*	4
Biology 101	3	Biology 102	3
Phy. Ed.	1	History and Soc. Sci.	3
	15		18

Semester 3		**Semester 4**	
Chemistry 205	4	Chemistry 206	5
English 250	3	English 260	3
History and Soc. Sci.	3	History and Soc. Sci.	3
Education 200	2	Education 250	2
Physics 101	4	Physics 102	4
	16		17

Semester 5		**Semester 6**	
Chemistry 305	4	Physics 202	3
Geology 101	3	Education 303	3
History and Soc. Sci.	3	Speech 210	3
Education 302	3	Electives	5
Art 255/Music 205	2		
	15		16

Semester 7		**Semester 8**	
Chemistry 340	3	Initial Performance Practicum	15
Chemistry 401*	2		
Electives	11		
	16		

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*Recommended Courses, not required

**Chemistry Single Teaching Field, 7-12: Same general plan as above except omit Biology 101 and 102, Geology 101 and Physics 202.

Courses of Instruction
Chemistry

101. General Chemistry **four hours**
Three lectures and one three-hour laboratory. A survey of traditional and modern Chemistry with emphasis on concepts and the role of Chemistry in modern life. For students who do not plan to take any courses beyond Chemistry 102. This course has no pre-requisites.

102. General Chemistry **four hours**
Three lectures and one three-hour laboratory. Continuation of Chemistry 101. PR: Chemistry 101.

103. Modern Chemistry **two hours**
One lecture and one three-hour laboratory. This course is designed to provide background for those students who take Chemistry 101 and 102 and then decide to take additional chemistry. PR: 102. Can be taken concurrently with 205, or 305.

105. Chemical Principles **five hours**
Three lectures and two three-hour laboratories. A study of inorganic and elementary physical chemistry based on modern chemical concepts, including Stoichiometry, Atomic and Molecular Structure, Periodic Properties, Phase Relations Solution Chemistry, Chemical Equilibrium and Kinetics, Electrochemistry, and Nuclear Chemistry. Qualitative Analysis and an introduction to computer programming is included in the laboratory. PR: One unit of high school chemistry.

106. Chemical Principles **five hours**
Three lectures and two three-hour laboratories. Continuation of Chemistry 105. PR: Chemistry 105.

205. Analytical Chemistry **four hours**
Two lectures and two three-hour laboratories. Classical methods of chemical analysis with emphasis on quantitative techniques. Also includes theory of acid-base, precipitation, and oxidation methods, molecular structure, and an introduction to electrochemistry. PR: Chemistry 106, or 103 concurrently.

206. Instrumental Analysis **five hours**
Three lectures and two three-hour laboratories. Theory of and practical experience in the use of modern chemical instrumentation. Includes Spectroscopic, Chromatographic, Electrochemical, and Radio-chemical methods. PR: Chemistry 205.

305. Organic Chemistry **four-five hours**
Three lectures and one or two three-hour laboratories. A systematic study of organic chemistry with emphasis on kinetic behavior, structural relationships, and reaction mechanisms. Includes the study of all major classes of organic compounds and functional groups. Chemistry majors and minors must take the 5 hour course; others may elect either the 4 or 5 hour course. PR: Chemistry 106, or 103 concurrently.

306. Organic Chemistry **four-five hours**
Three lectures and one or two three-hour laboratories. Continuation of Chemistry 305. PR: Chemistry 305.

340. Physical Approach to Modern Chemistry **three hours**
Three lectures. A study of elementary physical chemistry for teachers. This course is designed to provide the background necessary to teach the new high school courses in chemistry, physics, and physical science. Pre-or-Corequisite: Chemistry 205 or 305.

401. Independent Study and Research **two hours**
Independent study and research under the direction of a faculty member. PR: Consent of Instructor.

402. Independent Study and Research **two hours**
Independent study and research under the direction of a faculty member. PR: Consent of Instructor.

403. Independent Study and Research **two hours**
Independent study and research under the direction of a faculty member. PR: Consent of Instructor.

405. Physical Chemistry **four hours**
Three lectures and one three-hour laboratory. A rigorous study of Kinetics, Thermodynamics, Quantum Mechanics, Phase Equilibria, Electrochemistry, and Nuclear Chemistry. PR: Chemistry 206, Chemistry 305, Mathematics 315, and Physics 102.

406. Physical Chemistry **four hours**
Three lectures and one three-hour laboratory. Continuation of Chemistry 405. PR: Chemistry 405.

440. Intermediate Organic Chemistry **three hours**
Three lectures. An advanced study of organic reaction mechanisms. PR: Chemistry 306.

450. Intermediate Inorganic Chemistry **three hours**
Three lectures. An advanced study of inorganic reactions, coordination compounds, and theories based on quantum mechanical principles. PR: Chemistry 340 or 405.

460. Seminar **one hour**
Each chemistry major should register for seminar one semester, preferably during his senior year. PR: Consent of Instructor.

COMMERCE

(Business Administration, Business Education, Economics, Electronic Data Processing)

The Division of Commerce offers the student several choices in his selection of a major field of study. Under the B.S. Degree the student may obtain a degree in Business Administration with a concentration in General Business, Accounting, Economics or Office Administration.

In the A.B. in Education Degree the student may earn a degree in Business Education-Comprehensive or Business Education-Secretarial.

In the area of two-year programs the student may select: Accounting, Secretarial, Clerical, or Electronic Data Processing.

Students may minor in this division in General Business, Accounting, Economics, Office Administration and Electronic Data Processing.

BUSINESS ADMINISTRATION

Group A General

Major 39 sem. hrs.

Business	*201, 202	Principles of Accounting	6
	205	Salesmanship	3
	300	Retailing	3
	304	Marketing	3
	*306, 307	Business Law	6
	308	Personnel Management	3
	309	Industrial Organization and Management	3
	310	Statistics	3
	320	Advertising	3
	401	Business Finance	3
	409	Quantitative Management	3
	410	Investments	3
Economics	*201, 202	Economic Principles and Problems	6
	301	Intermediate Econ. Analysis: Microeconomics	3
	303	Money, Credit and Banking	3
	307	Personal Finance	3
EDP	100	Introduction to Electronic Data Processing	3
	103	FORTRAN Programming I	3
	104	COBOL Programming I	3
Math.	113	Finite Math	3
	114	Finite Math	3

Minor (not open to majors in Group A or B. open to majors in Group C and D) 18 sem. hrs.

Business	201, 202	Principles of Accounting	6
	306, 307	Business Law	6
	304	Marketing	3
	309	Industrial Organization and Management	3
	310	Statistics	3
	401	Business Finance	3

*Required

First Year

Semester 1		Semester 2	
English 104	3	English 108	3
Science & Math Req.	3	Science & Math Req.	3
Business 201	3	Business 202	3
Economics 201	3	Economics 202	3
Minor	3	Minor	3
HPER	1		
	16		15

Second Year

Semester 3		Semester 4	
English 250	3	English 260	3
History & Soc. Sci. Req.	3	History & Soc. Sci. Req.	3
Speech 101	3	Fine Arts	2
Business 306	3	Art 255 or	
Select one of Following:	3	Music 205	
Business 205		Business 307	3
Business 300		Select one of Following:	3
Economics 301		Business 304	
EDP 100		Business 308	
Math 113		Business 309	
Elective	1	Business 320	
		Economics 303	
		EDP 100	
		Math 114	
		Elective	3
	16		17

Third Year

Semester 5		Semester 6	
History & Soc. Sci.	3	History & Soc. Sci.	3
Minor Field	3	Minor Field	3
Select two of Following:	6	Select one of Following:	3
Business 300		Business 304	
Business 309		Business 308	
Business 401		Business 309	
EDP 100		Business 310	
EDP 103		Business 320	
EDP 104		Business 410	
Economics 301		EDP 103	
Economics 303		EDP 104	
Electives	4	Economics 303	
		Electives	7
	16		16

Continued

Fourth Year

Semester 7		Semester 8	
Minor Field	3	Minor Field	3
Select one of Following:	3	Select one of Following:	3
Business 309		Business 310	
Business 401		Business 410	
Business 409		EDP 103	
EDP 100		EDP 104	
EDP 103		Electives	10
EDP 104			
Economics 303			
Electives	10		
	16		16

Business Administration Minor Group A—General*

First Year

Semester 1		Semester 2	
Business 201	3	Business 202	3

Second Year

Semester 3		Semester 4	
Business 306	3	Business 307	3

Third Year

Semester 5		Semester 6	
Business 309	3	Business 304	3

Fourth Year

Semester 7		Semester 8	
Business 401	3	Business 310	3

Minor requirement is 18 semester hours. Select 6 of above 8 courses.

Group B Accounting

Major 39 sem. hrs.

Business	*201, 202	Principles of Accounting	6
	*301, 302	Intermediate Accounting	6
	*303	Advanced Accounting	3
	*306, 307	Business Law	6
	310	Statistics	3
	401	Business Finance	3
	404	Cost Accounting	3
	405	Auditing	3

Continued

	406, 407	Federal Income Tax Accounting	6
	409	Quantitative Management	3
Economics	*201, 202	Economic Principles and Problems	6
EDP	100	Introduction to Electronic Data Processing	3
	103	FORTRAN Programming I	3
	104	COBOL Programming I	3
Math.	113	Finite Math	3
	114	Finite Math	3

Minor (not open to majors in Group A or B. open to majors in Group C and D) 18 sem. hrs.

Business	201, 202	Principles of Accounting	6
	301, 302	Intermediate Accounting	6
	303	Advanced Accounting	3
	404	Cost Accounting	3
	405	Auditing	3
	406, 407	Federal Income Tax Accounting	6
EDP	104	COBOL Programming I	3

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*Required

First Year

Semester 1

English 104	3
Science or Math	3
Business 201	3
Economics 201	3
Minor	3
HPER	1
	16

Semester 2

English 108	3
Science or Math	3
Business 202	3
Economics 202	3
Minor	4
	16

Second Year

Semester 3

English 250	3
History or Soc. Sci.	3
Speech 101	3
Business 306	3
Business 301	3
Electives	1
	16

Semester 4

English 260	3
History or Soc. Sci.	3
Fine Arts: Art 255 or Music 205	2
Business 307	3
Business 302	3
Electives	2
	16

Third Year

Semester 5

History or Soc. Sci.	3
Minor Field	3
Business 303	3
Select one of Following: Business 401 Business 406 Business 409 EDP 100 EDP 103 EDP 104 Math 113	3
Electives	4
	16

Semester 6

History or Soc. Sci.	3
Minor Field	3
Select one of Following: Business 310 Business 405 Business 407 EDP 100 EDP 103 EDP 104 Math 114	3
Electives	7
	16

Continued

Fourth Year

Semester 7		Semester 8	
Minor Field	3	Minor Field	3
Select one of Following:	3	Select one of Following:	3
Business 401		Business 310	
Business 404		Business 405	
Business 406		Business 407	
Business 409		EDP 103	
EDP 103		EDP 104	
EDP 104		Electives	10
Electives	10		
	—		—
	16		16

Business Administration
Minor
Group B—Accounting*

First Year

Semester 1		Semester 2	
Business 201	3	Business 202	3

Second Year

Semester 3		Semester 4	
Business 301	3	Business 302	3

Third Year

Semester 5		Semester 6	
Business 303	3	Business 405	3

Fourth Year

Semester 7		Semester 8	
Business 404	3	Business 407	3
Business 406	3	EDP 104	3

Minor requirement is 18 semester hours. Select 6 of above 10 courses. Note: Employment in the field of accounting often requires 24 hours of accounting or related subjects.

Group C Economics
Major 39 sem. hrs.

Economics	*201, 202	Economic Principles and Problems	6
	*301	Intermediate Econ. Analysis: Microeconomics	3
	*302	Intermediate Econ. Analysis: Macroeconomics	3
	303	Money, Credit and Banking	3

	305	Economics of Labor	3
	307	Personal Finance	3
	405	Economic Analysis	3
	406	Guided Economic Study	3
Business	201, 202	Principles of Accounting	6
	310	Statistics	3
EDP	100	Introduction to Electronic Data Processing	3
	103	FORTRAN Programming I	3
History	320	American Economic History	3
Math.	113	Finite Math	3
	114	Finite Math	3

Minor (not open to majors in Group C; open to majors in Group A, B and D) 18 sem. hrs.

Economics	201, 202	Economic Principles and Problems	6
	301	Intermediate Econ. Analysis: Microeconomics	3
	302	Intermediate Econ. Analysis: Macroeconomics	3
	303	Money, Credit and Banking	3
	305	Economics of Labor	3
	405	Economic Analysis	3
	406	Guided Economic Study	3

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*Required

First Year

Semester 1		Semester 2	
English 104	3	English 108	3
Science or Math	3	Science or Math	3
Economics 201	3	Economics 202	3
Minor	3	Minor	3
HPER	1	Electives	4
Electives	3		
	16		16

Second Year

Semester 3		Semester 4	
English 250	3	English 260	3
History or Soc. Sci.	3	History or Soc. Sci.	3
Speech 101	3	Fine Arts: Art 255	2
Economics 301	3	or Music 205	
Select one of Following:	3	Economics 302	3
Business 201		Select one of Following:	3
Economics 303		Business 202	
EDP 100		Economics 305	
Math 113		EDP 100	
Electives	1	Math 114	
		Electives	2
	16		16

Continued

Third Year

Semester 5		Semester 6	
History or Soc. Sci.	3	History or Soc. Sci.	3
Minor Field	3	Minor Field	3
Select two of Following:	6	Select two of Following:	6
Business 201		Business 202	
Economics 303		Economics 303	
EDP 100		EDP 100	
EDP 103		EDP 103	
Math 113		Math 114	
Electives	4	Electives	4
	16		16

Fourth Year

Semester 7		Semester 8	
Minor Field	3	Minor Field	3
Select one of Following:	3	Select two of Following:	6
Economics 406		Economics 305	
History 320		Economics 405	
Electives	10	Electives	7
	16		16

Business Administration
Minor
Group C—Economics*

First Year

Semester 1		Semester 2	
Economics 201	3	Economics 202	3

Second Year

Semester 3		Semester 4	
Economics 301	3	Economics 302	3

Third Year

Semester 5		Semester 6	
Economics 303	3	Economics 305	3

Fourth Year

Semester 7		Semester 8	
Economics 406	3	Economics 405	3

Minor requirement is 18 semester hours. Select 6 of above 8 courses.

Group D Office Administration Major 34 sem. hrs.

Required Courses

Bus. Educ.	102	Intermediate Typewriting	2
	211	Advanced Typewriting	2
	251	Business Correspondence	2
	301, 302	Advanced Shorthand and Transcription	8
	303	Principles and Practices of Filing	2
	311	Office Machines	2
	314	Dictation and Transcription	2
	351	Secretarial Office Practice	3
	351L	Secretarial Office Practice Lab	1
Business	201, 202	Principles of Accounting	6
EDP	101	Punched Card Data Processing	2
Home Ec.	103	Principles of Clothing Selection	2

Minor (not open to majors in Group D. open to majors in Group A, B and C) 21 sem. hrs.

Bus. Educ.	101, 102	Beginning and Intermediate Typewriting or	
	211	Advanced Typewriting	4
	201, 202	Beginning Shorthand	8
	301	Advanced Shorthand	4
	311	Office Machines	2
Business	201	Principles of Accounting	3

First Year

Semester 1		Semester 2	
English 104	3	English 108	3
Social Science Req.	6	Social Science Req.	6
Science or Math Req.	3	Science or Math Reg.	3
Home Economics 103	2	Business Education 102	2
HPER	1	Minor or elective	2
Elective	1		
	16		16

Second Year

Semester 3		Semester 4	
Speech 101	3	English 250	3
Business 201	3	Fine Arts: Art 255 or Music 205	2
Business Ed. 201 or 301	4	Business 202	3
Business Ed. 211	2	Business Ed. 202 or 302	4
Minor or electives	4	Minor or electives	4
	16		16

Continued

Third Year

Semester 5		Semester 6	
English 260	3	Business Ed. 302 or electives or second field	4
Business Ed. 251	2	Business Ed. 311	2
Business Ed. 303	2	Business Ed. 314	2
Business Ed. 301 or electives or second field	4	Minor or electives	8
Minor or electives	5		
	16		16

Fourth Year

Semester 7		Semester 8	
Business Ed. 351	3	Minor and electives	16
Business Ed. 351L	1	Suggested List: EDP 100 Home Economics 312	
EDP 101	2		
Minor or electives Suggested List: Business 306	10		
	16		16

Business Administration
Group D
Office Administration
Bachelor of Science Degree
Minor

First Year

Semester 1		Semester 2	
		Business Ed. 102	2

Second Year

Semester 3		Semester 4	
Business Ed. 211	2	Business 201	3

Third Year

Semester 5		Semester 6	
Business Ed. 201	4	Business Ed. 202	4

Fourth Year

Semester 7		Semester 8	
Business Ed. 301	4	Business Ed. 311	2

Note: Business Education 101 is taught only in summer school. Electives may be substituted for Business Education 201 and/or 202 if previous training has been taken in this area.

Electronic Data Processing

Minor
(open to majors in Group A, B, C and D) 19 sem. hrs.

EDP	100	Introduction to Electronic Data Processing	3
	101	Punched Card Data Processing	2
	102	Computer Logic and Flowcharting	2
	103	FORTRAN Programming I	3
	104	COBOL Programming I	3
	201	Assembly Programming	3
	203	FORTRAN Programming II or	
	204	COBOL Programming II	3

Business Administration
Minor
Electronic Data Processing

First Year

Semester 1		Semester 2	
EDP 100	3	EDP 101	2

Second Year

Semester 3		Semester 4	
EDP 102	2	EDP 103	3

Third Year

Semester 5		Semester 6	
EDP 104	3	EDP 203	3
		EDP 204	3
			6

Fourth Year

Semester 7		Semester 8	
EDP 201	3		

Curricula for Teaching Fields and Specializations in Business Education

Business Education Comprehensive, grades 7-12			44 Sem. Hrs.
Business	*141	Business Mathematics	3
	*201, 202	Principles of Accounting	6
	304	Marketing	3
	306	Business Law	3
Bus. Educ.	*102, 211	Intermediate and Advanced Typewriting	4
	311	Office Machines	2
	*301, 302	Advanced Shorthand and Transcription	8
	*351	Secretarial Office Practice	3
	351L	Secretarial Office Practice Lab	1
	431	Methods and Materials in Teaching Business Education	2
Economics	*201, 202	Economic Principles and Problems	6
	303	Money, Credit and Banking	3

First Year

Semester 1		Semester 2	
English 104	3	English 108	3
Social Science Req.	6	Social Science Req.	3
Economics 201	3	Economics 202	3
Science or Math Req.	3	Science or Math Req.	3
HPER	1	Business 141	3
		Elective	1
	16		16

Second Year

Semester 3		Semester 4	
Fine Arts: Art 255 or Music 205	2	Social Science Req.	3
English 250	3	Education 250	2
Education 200	2	Business 202	3
Business 201	3	Economics 303	3
Business Ed. 102	2	Business Ed. 202 or Business Ed. 302	4
Business Ed. 201 or Business Ed. 301	4	Business Ed. 211	2
	16		17

Continued

Third Year

Semester 5		Semester 6	
English 260	3	Education 303	3
Speech 210	3	Business 304	3
Education 302	3	Business Ed. 311	2
Business 306	3	Business Ed. 351	3
Business Ed. 301 or Electives	4	Business Ed. 351L	1
		Business Ed. 302 or Electives	4
	16		16

Fourth Year*

Semester 7		Semester 8	
Business Ed. 431	2	Electives	16
Education 430	2	Suggested List:	
Education 432	2	Business 320	
Education 433	3	EDP 100	
Education 450	6	EDP 101	
		Education 424	
	15		16

Fourth Year**

Semester 7		Semester 8	
Electives	16	Business Ed. 431	2
Suggested List:		Education 430	2
Business 205		Education 432	2
Business Ed. 251		Education 433	3
Business Ed. 303		Education 450	6
EDP 100			
EDP 101			
	16		15

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*Note: All Students are required to take Math 205. May replace Business Ed. 201 if the student had high school shorthand. Other students must take both Math 205 and Business Ed. 201.

**Note: First and second semesters may be reversed.

Business Education Secretarial, Single Teaching Field Grades 7-12 **27 Sem. Hrs.**

Business	*141	Business Mathematics	3
	*201, 202	Principles of Accounting	6
Bus. Educ.	*102, 211	Intermediate and Advanced Typewriting	4
	*301, 302	Advanced Shorthand and Transcription	8
	311	Office Machines	2
	*351	Secretarial Office Practice	3
	351L	Secretarial Office Practice Lab	1

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*Courses marked with an asterisk must be completed prior to admission to the Initial Performance Practicum.

First Year

Semester 1		Semester 2	
English 104	3	English 108	3
Social Science Req.	6	Social Science Req.	6
Science or Math Req.	3	Science or Math Req.	3
Business 141	3	Fine Arts: Art 255 or Music 205	2
HPER	1	Elective	1
	16		15

Second Year

Semester 3		Semester 4	
English 260	3	English 250	3
Social Science Req.	3	Education 250	2
Education 200	2	Business 202	3
Business 201	3	Business Ed. 202 or 302	4
Business Ed. 102	2	Business Ed. 211	2
Business Ed. 201 or 301	4	Electives or second field	2
	17		16

Third Year

Semester 5		Semester 6	
Speech 210	3	Education 303	3
Education 302	3	Business Ed. 302 or second teaching field	4
Business Ed. 301 or second teaching field	4	Business Ed. 351	3
Business Ed. 311	2	Business Ed. 351L	1
Second field or electives	4	Second field or electives	5
	16		16

Fourth Year*

Semester 7		Semester 8	
Completion of second field or electives	17	Business Ed. 431	2
Suggested List:		Education 430	2
Business 205		Education 432	2
EDP 100		Education 433	3
EDP 101		Education 450	6
Business Ed. 251			
Business Ed. 303			
	17		15

Continued

Fourth Year*

Semester 7		Semester 8	
Business Ed. 431	2	Completion of second field or electives	17
Education 430	2	Suggested List:	
Education 432	2	Business 320	
Education 433	3	EDP 100	
Education 450	6	EDP 101	
		Education 424	
	15		17

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*Note: First and second semesters may be reversed.

Courses of Instruction
Commerce

Business Administration, Business Education, Economics, Electronic Data Processing

See pages 269-72

Business Administration

102. Introduction to Business **three hours**
A survey of the various fields of business designed to acquaint the student with the basic principles, practices, and employment opportunities of each field. The student is provided, early in his college training, with the information of and preparation for the advanced courses in business to aid in choosing his major studies. For freshmen and sophomores only. Limited to the two-year secretarial and clerical curricula and non-majors.

141. Business Mathematics **three hours**
This course is designed to provide knowledge and skill in the computation of the practical problems of a business. The course content should form a sound basis for further study in the following areas: accounting, business finance, marketing, and related business subjects. Special emphasis will be directed to review of the basic arithmetic skills. Does not satisfy mathematics in General Requirements. Not open to students with credit for Math 110, unless fulfilling requirements for A.B. in Business Education.

201. Principles of Accounting **three hours**
Fundamental accounting theory and procedures: Organization of accounts, the accounting cycle, working papers and the preparation of financial and operating statements for individual proprietorships.

202. Principles of Accounting **three hours**
The second semester of this course is a further study of the accounting process as applied to various business organizations. The two semesters of this course are designed to give students an adequate understanding in the recording, clarifying and summarizing of business transactions in order to proceed with the interpretation and analysis of accounting data. This course is a basic course for (1) accounting majors, (2) majors in other areas of business administration, and (3) those whose major interest is in economics, political science, law or other professional areas. PR: 201.

205. Salesmanship **three hours**
A study of techniques appropriate to personal selling, both retail and contact. Students are given opportunities to construct and give sales presentations.

300. Retailing **three hours**
Presents an overview of retailing, including such areas as organizational structure, merchandising practices and procedures, promotional activities, store planning and layout, and control methods, thus providing technical and theoretical knowledge necessary for attaining middle management employment in this field.

301. Intermediate Accounting **three hours**
Primarily the study of general financial accounting theory as it relates to balance sheet items. Included is a brief review of the accounting cycle and income recognition theory. Current tax regulations are considered where applicable. PR: Bus. 202.

302. Intermediate Accounting **three hours**
A continuation of 301 to include the study of corporate ownership equity and the analysis and interpretation of accounting data. PR: Bus. 301.

303. Advanced Accounting **three hours**
Includes accounting for special situations: partnerships, installment and consignment sales, home office-branch relationships, consolidations, and fund accounting. Attention is focused on the current AICPA position relative to these special accounting situations. PR: Bus. 302.

304. Marketing **three hours**
A study of those business activities that direct the flow of goods and services from producers to consumers. PR: Econ. 201, 202, or consent of instructor.

306. Business Law **three hours**
A study of the nature and function of our legal system, courts, and procedure, including the law of contracts, agency, and partnership.

307. Business Law **three hours**
Continuation of 306. Substantive law of corporation, sales, secured transactions, commercial papers, and the legal basis of property as applied to business situations. Business 307 will not satisfy three hours requirement in the teaching field in Business Education (Comprehensive). PR: Bus. 306.

308. Personnel Management **three hours**
A study of the field of personnel management and industrial relations including its background, development, and modern practices.

309. Industrial Organization & Management **three hours**
The emphasis in this course is on the modern approach to the field of management. The theoretical and practical approaches are presented along with analytical techniques that are applicable in the various management and production areas.

310. Statistics **three hours**
The course includes computation of statistical measurements, methods of collecting and analyzing data, and the interpreting of results.

314. Office Management **two hours**
The study of office management principles, analysis of office procedures, filing, transcribing, correspondence, reports, business machines, and forms. The application of personnel management techniques to office management, office organization, and office layouts.

320. Advertising **three hours**
A survey course of the social, psychological, and some technical aspects of advertising. For Business and Journalism students.

401. Business Finance **three hours**
This course is intended to give the student a background in the field of financial management with emphasis on the areas of cost of capital, cost of external capital, cost of retained earnings, and similar concepts. It will also include material investment decisions and financial decisions. PR: Bus. 201, 202.

404. Cost Accounting **three hours**
The relationship of cost accounting to the performance of management functions. The role of cost and profit data in management pursuit of company objectives is studied with four basic points of view in mind: (1) cost principle, (2) cost determination, (3) cost control, and (4) cost analysis. PR: Bus. 201, 202.

405. Auditing **three hours**
Duties and responsibilities of auditors, methods of verification of balance sheet and income and expense accounts with the applicable principles of internal control. Preparation of working papers, schedules, audit reports, and certificates. PR: Bus. 201, 202, 301, 302.

406. Federal Income Tax Accounting: Individual **three hours**
Preparation of income tax returns from the accounts of an individual; exclusions and inclusions for gross income, capital gains and losses, business expenses, and other deductions.

407. Federal Income Tax Accounting: Partnership and Corporation **three hours**
Continuation of 406, including preparation of income tax returns from accounts of partnerships, estates and trusts, and corporations. PR: Bus. 406. While previous accounting knowledge or experience will be helpful, no prior accounting training, knowledge, or experience is required.

409. Quantitative Management **three hours**
A study is made of the quantitative techniques which have been incorporated into the business environment in recent years.

410. Investments **three hours**
A study of the principles of investment procedures and practices to follow in investing money.

Business Education

101. Beginning Typewriting **two hours**
A beginning course in the operational fundamentals of the typewriter. This course includes basic machine operations, development of speed and control, vertical and horizontal centering, simple tabulation, memorandums, personal business letters, announcements, simple manuscripts, rough drafts and proofreader's marks. No credit by examination.

102. Intermediate Typewriting **two hours**
PR: Bus. Ed. 101 or consent of Instructor. This course includes the development of speed, control, and sustained typing, business letters, envelopes, tabulated reports, manuscripts, changing of typewriter ribbons, and simple business forms. No credit by examination.

201. Beginning Shorthand **four hours**
Beginning course in shorthand. Introduction of theory and brief forms of Gregg Diamond Jubilee Shorthand. Emphasis is on reading and writing of shorthand at 60 words per minute. Spelling, punctuation, and sentence structure are stressed. No credit by examination. Students with one or more years of high school shorthand are not permitted to take this course for credit.

202. Beginning Shorthand **four hours**
PR: 201 or Department Placement Test. Continuation of Bus. Ed. 201. Emphasis is on the writing of shorthand from dictation at a minimum of 80 words per minute. Spelling, punctuation, and sentence structure are stressed.

204. Secretarial Accounting **three hours**
Designed to meet the needs of the terminal secretarial student. Trains in the fundamental accounting procedures that will be encountered by the secretary. It develops the understanding and interpretation of accounting principles. Cannot substitute for Business 201 or Business 202.

211. Advanced Typewriting **two hours**
PR: 102. An advanced course in electric typewriting adapted to office procedures. This course includes the typing of telegrams, cards statistical reports, tabulation, business letters with tabulated data, invoices, requisitions, typing of special reports, legal documents, changing the typewritter ribbon, artyping, office style, and sustained typing. No credit by examination.

251. Business Correspondence **two hours**
PR: Bus. Ed. 102, English 104, 108. An analysis of the physical mechanics of the business letter. This course includes the writing of effective business letters in sales, collection letters, letters of application, telegrams, cablegrams, business reports, and post office services. No credit by examination.

301. Advanced Shorthand and Transcription **four hours**
PR: Bus. Ed. 202 or 2 years of high school shorthand and departmental placement test. Emphasis is on the writing of shorthand at a minimum of 100 words per minute and producing mailable transcripts. Spelling, punctuation, and sentence structure are stressed. A complete review of brief forms and derivatives is included. Sustained dictation and transcription of a departmental business vocabulary is emphasized. No credit by examination.

302. Advanced Shorthand and Transcription **four hours**
PR: Bus. Ed. 301. A continuation of Bus. Ed. 301. Emphasis is on dictation at a minimum of 120 words per minute and producing mailable transcripts. Sustained dictation and transcription of a vocational vocabulary is emphasized. No credit by examination.

303. Principles and Practices of Filing **two hours**
Designed to provide a foundation in the latest methods and systems of retrieving information and the management of a company-wide records system. Actual practice is provided in alphabetic, subject, numeric, and geographic filing systems.

311. Office Machines **two hours**
An orientation and practice course for students in the Business or Bus. Ed. area. Approximately two-thirds of the course time is given to practice with adding-listing, rotary, electronic calculators, bookkeeping machines, spirit and ink process duplicating machines, and transcribing equipment. No credit by examination.

314. Dictation and Transcription **two hours**
A course which combines the skills of shorthand, typewriting, and English required in the process of producing typewritten transcripts. Practice is given on materials designed to fuse these primary skills in order to develop vocational stenographic competency. Transcription from dictabelts is also included.

351. Secretarial Office Practice **three hours**
This course includes all phases of the office routine and procedures. Class lecture is supplemented by a field trip, films, and guest speakers from local and state industries.

351L. Secretarial Office Practice Lab **one hour**
A practical course with actual experience in an office. A total of 60 hours in supervised office work is required for credit in the course. Previous work experience cannot fulfill this requirement. Students enrolled in this course should limit their class load for this semester to 16 hours. Two-year students should plan to take this course their last semester in college; the A.B. and B.S. majors should plan to take this course their Junior year. PR: Bus. Ed. 211, 301, 351, 2.0 average in major, minor, and overall i.e. for all work attempted.

431. Methods and Materials in Teaching Business Education **two hours**
A study is made of the latest methods, procedures, and techniques of teaching the skilled and nonskilled Business Education courses. Audio-visual aids and equipment available for the teaching of the subject will be discussed. To be taken as part of the Initial Performance Practicum.

Economics

200. Economics **three hours**
The general education course in the field of economics. It is intended to introduce the student to the broad field of economics, including materials from both macro- and micro-economics. Primarily, the course instructs the student in how our economic system operates. Some attention is given to other economic systems. Not open to students with credit from Economics 201.

201. Economic Principles and Problems (For those meeting the requirement of six hours in Economics) **three hours**
The course approaches the subject from the point of view of Macro-economics covering the nature and method of economics and describing how the capitalistic system functions. Further study is made of the business cycle, fiscal policy, monetary policy, gross national product, and similar concepts. Some time is devoted to the study of competing economic systems. Not open to students with credit for Econ. 200.

202. Economic Principles and Problems (For those meeting the requirement of six hours in Economics) **three hours**
This course is devoted to Microeconomics. It follows the analysis of the firm and the decisions made by the managers of the firm. It includes the analysis of demand and supply and price and output determination. It is also concerned with the important problems in the field of economics: monopoly, agriculture, international trade, labor, economic development, and similar problems. PR: 201 or 200.

301. Intermediate Economic Analysis: Microeconomics **three hours**
Consumer demand, the supply function, and market pricing with various degrees of competition oriented to the viewpoint of the individual firm and the industry of which the firm is a part are examined from a theoretical point of view. PR: 201, 202.

302. Intermediate Economic Analysis: Macroeconomics **three hours**
National income, as a measure of economic activity, is descriptively and theoretically analyzed. Examination of theories of consumption and investment spending including monetary demand and supply are integrated with current economic problems to explain the level of employment and prices. PR: 201, 202.

303. Money, Credit, and Banking **three hours**
An intensive study of money and credit principles with an analysis of their effects upon prices. History of banking. Banking principles and practices. PR: Economics 201, 202.

305. Economics of Labor **three hours**
A review of labor history with emphasis on the aims and methods of labor organizations, the theories of wages, and the current trends in labor-management relations.

307. Personal Finance **three hours**
A study of the problems a consumer must face in his or her day-to-day buying and living. It includes a brief survey of budgets, life insurance, investments, managing personal finances, buying services, and other problems of the consumer.

405. Economic Analysis **three hours**
As well as giving the upper class student some advanced economic analysis, the course is designed to demonstrate the applicability of economic principles and theory to a wide range of important social issues. The student will be encouraged to use the tools of economic analysis to generate possible solutions to problems found not only in commerce but also in other areas of modern society.

406. Guided Economic Study **one-three hours**
Intensive reading, research, and study in current literature and documents in regard to a selected economic problem or group of problems. The field of study will be one in which the student has a special interest. All work will be done individually and the class will be conducted by conferences with each student. PR: 17 hours of Economics, Business, and Social Science courses.

ENGLISH

(Division of Language and Literature)

The English program is designed to provide instruction in the English language and in literature written in English as part of the college's educational program, thereby developing increased proficiency in communication skills and encouraging judgment and appreciation of the values of literature for the individual and for society. It is also intended to provide leadership and constructive influence in promoting literacy and the appreciation of literature in the elementary and secondary schools of the state, particularly through the training of English teachers and by seeking to obtain high standards in teacher education. A third aim of the English program is to cooperate with the English departments of all colleges and universities in the state in the effort to promote in the academic community, the state, and the nation an understanding of the importance of language and literature as an element in liberal education. A final aim of the English program—which is a result of its general concern with academic excellence—is to make available honors courses for talented and highly motivated students.

Major in English 30 sem. hrs.

Preliminaries: In addition to the General Studies requirements in English (Eng. 104, 108, 250, 260), the major is required to complete 30 hours in English courses beyond the 200 level, according to the following plan:

Section 1. All students must take English 315, Shakespeare........................ 3
and English 341, Survey of World Literature................................ 3

Section 2. The student must then select *one* course from each of the following groups:
Group A—353. Eighteenth Century Literature; 420. Seventeenth Century Literature; 421. Chaucer* 3
Group B.—311. Literature of the Romantic Period; 312. Literature of the Victorian Period; 346. The British Novel 3
Group C—319. General Semantics; 321. Study of the English Language; 421. Chaucer*.. 3
Group D—302. Narrative and Descriptive Writing; 413. Expository Writing.. 3
Group E—347. The American Novel; 350. American Prose; 360. Major American Poets.. 3
Group F—318. Modern Drama; 343. The Current Scene in Literature... 3

*Chaucer may be counted only once, either in Group A or C.

Section 3. Six hours must be selected from among the six groups above and/or from the following list of three-hour courses................................... 6
322 The Short Story
324 Survey of World Literature (Renaissance to Modern)
348 The Bible as Literature

351 Minority Literature
352 Southern Literature
372 The Art of the Motion Picture
376 Civilization—A Personal View
422 The British Drama
423 Literary Criticism

Section 4. The following courses can only be taken as open electives and, therefore, would not count toward the required 30 hours.

207 Children's Literature
371 Folk Literature
*450 Honors Literature
**460 Independent Studies

Minor 18 sem. hrs.

Preliminaries: In addition to the twelve General Studies semester hours required in English)104, 108, 250, 260), the English minor is required to complete 18 hours in English courses beyond the 200 level, according to the following plan:

Required Courses on the 300-400 level:	18 Sem. Hrs.
English 315, Shakespeare	3
English 341, Survey of World Literature	3
One course selected from Groups A or B, above	3
One course selected from Groups C or D, above	3
Two courses, 300-400, selected from any area above, except Section 4	6

Curricula for Teaching Fields and Specializations in English and Language Arts

English, Single Teaching Field, Grades 7-12

Required Courses			36 Sem. Hrs.
***104	Written English	3	
***108	Advanced Written English	3	
***250	Survey of English Literature	3	
***260	Survey of American Literature	3	
***321	Study of English Language	3	
Electives			
	300-400-level language and composition courses	6	
	300-400-level literature courses	15	

Language Arts Comprehensive, Grades 7-12 **59 Sem. Hrs.**

English **104	Written English	3
English***108	Advanced Written English	3
English***250	Survey of English Literature	3
English***260	Survey of American Literature	3
English***321	Study of the English Language	3
English***431	Methods and Materials in Teaching English	2

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*In order to enter this course, a student must have the consent of the Honors Committee.

**When extreme hardship in scheduling is placed on a student, he or she may request the chairman of the English Department (who will confer with the chairman of the departmental Curriculum Committee) to substitute this course for any course above.

Speech ***105	Voice and Diction	3
****Drama ***151	Play Production	2
****Drama ***152	Theatre Workshop	1
Speech ***210	Speech for the Teacher	3
Speech ***243	Argumentation and Debate	3
Drama ***221	Oral Interpretation	2
Speech 245	Oratory	1
Speech 401	Extemporaneous Speaking	1
Drama ***336	Play Directing	2
Speech 430	Speech Correction	3
Journalism*240	Reporting	3
Journalism312	Publication Problems	3

Electives

300-400 level language and composition courses	3
300-400 level literature courses	12

Language Arts Subject Specialization, Grades 1-9 or 7-9

Required Courses 24 Sem. Hrs.

*104	Written English	3
*108	Advanced Written English	3
*250	Survey of English Literature	3
*260	Survey of American Literature	3
*321	Study of the English Language	3

Electives

300-400-level language and composition courses	3
300-400-level literature courses	6

***Courses marked with three asterisks must be completed prior to admission to the Initial Performance Practicum.

****Drama 152 (Theatre Workshop) must be taken concurrently with Drama 151 (Play Production).

Previously acquired credit in Drama 152 will not fulfill this requirement.

Model Schedule
English Major
Bachelor of Arts Degree
30 sem. hrs.

First Year

Semester 1		**Semester 2**	
English 104*	3	English 108*	3
Foreign Language requirement**	3	Foreign Language requirement	3
Art 255 or Music 205	3	Speech 101	3
Physical Education	1	Social Science requirement	3
Minor Field/electives	3	Science or Math requirement	3
Social Science requirement	3	Minor Field electives	3
	16		18

Second Year

Semester 3		**Semester 4**	
English 250	3	English 260	3
English 341	3	English course from Section 3	3
Science or Math requirement	3	Foreign Language requirement	3
Social Science requirement	3	Social Science requirement	3
Minor Field electives	3	Minor Field electives	3
	15		15

Continued

Third Year

Semester 5		**Semester 6**	
English courses from Groups E and A	6	English courses from Groups B and D	6
Minor/electives	11	Minor Field/electives	11
	17		17

Fourth Year

Semester 7		**Semester 8**	
English courses from Groups C and F	6	English electives	3
Minor Field/electives	9	Minor Field/electives	9
		English 315	3
	15		15

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*If both English 104 and 108 have been waived, the student should register for Eng. 250 or Eng. 260.

**If first year French has been waived, six other course hours may be inserted (elective or requirement) for the French requirement during the first year.

English Minor
Bachelor of Arts Degree
18 semester hours

First Year

Semester 1		**Semester 2**	
English 104*	3	English 108*	3

Second Year

Semester 3		**Semester 4**	
English 250	3	English 260	3

Third Year

Semester 5		**Semester 6**	
English 341	3	English comp. elective	3
English Literature from Group A or B	3	English literature from Group C or D	3
		English 315	3

Continued

Fourth Year

Semester 7		Semester 8	
English literature elective, 300-400 level	3	English literature elective, 300-400 level	3

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*If both English 104 and 108 have been waived, the student should register for English 250 or English 260.

English
Single Teaching Field
Grades 7-12
36 hours

First Year

Semester 1		Semester 2	
English 104*	3	English 108*	3
Art 255 or Music 205	2	General elective	2
Social Science requirement	3	Social Science requirement	3
Science or Math requirement	3	Science or Math requirement	3
Physical Education	1	Second field/electives	6
Second field/elective	3		
	15		17

Second Year

Semester 3		Semester 4	
English 250	3	English 260	3
Education 200	2	Education 250	2
Social Science requirement	3	Social Science requirement	3
Speech 210	3	General elective	3
Second field/electives	6	Second field/electives	6
	17		17

Third Year

Semester 5		Semester 6	
English 321	3	English comp. elective	3
English literature electives	6	English literature electives	6
Education 302	3	Second field/electives	6
Second field/electives	5		
	17		15

Continued

Fourth Year**

Semester 7		Semester 8	
English comp. elective	3	English 431, Methods and Materials in Teaching English	2
English literature elective	3	Initial Performance Practicum	13
Second field/electives	6		
Education 303	3		
	15		15

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*If English 104 and 108 have been waived, the student should register for English 250 or Eng. 260.

**English 431 and the I.P.P. can be taken during the first semester of the senior year, if the student feels such an arrangement is to his benefit. If the I.P.P. is reversed, Education 303 should be taken in the last semester of the junior year.

English
Language Arts Comprehensive
Grades 7-12
59 hours

First Year

Semester 1		Semester 2	
English 104*	3	English 108*	3
Drama 151	2	Speech 105	3
Drama 152	1	Social Science requirement	6
Social Science requirement	6	Art 255 or Music 205	2
General elective	3	General elective	4
Physical Education	1		
	16		18

Second Year

Semester 3		Semester 4	
English 250	3	English 260	3
Education 200	2	Education 250	2
Speech 210	3	Speech 243	3
Drama 221	2	Journalism 312	3
Journalism 240	3	Science or Math requirement	3
Science or Math requirement	3	Elective	2
	16		16

Third Year

Semester 5		Semester 6	
English 321	3	English comp. elective	3
English literature elective	3	English literature elective	3
Education 302	3	Speech 245	1
Drama 336	2	Speech 401	1
Electives	6	Electives	9
	17		17

Continued

Fourth Year**

Semester 7		Semester 8	
English literature elective	6	English 431, Methods and Materials in Teaching English	2
Education 303	3	Initial Performance Practicum	13
Speech 430	3		
Elective	3		
	15		15

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*If English 104 and 108 have been waived, the student should register for English 250 or Eng. 260.

**English 431 and the I.P.P. can be taken during the first semester of the senior year, if the student feels such an arrangement is to his benefit. If the I.P.P. is reversed, Education 303 should be taken in the last semester of the junior year.

English
Language Arts Subject Specialization
Grades 1-9 or 7-9
24 hours

First Year

Semester 1		Semester 2	
English 104*	3	English 108*	3
Art 255 or Music 205	3	Art 253	2
Elective	3	Social Science requirement	3
Social Science requirement	3	Geography 210	3
Math or Science requirement	3	Math 210	3
Physical Education	1	Elective	3
	16		17

Second Year

Semester 3		Semester 4	
English 250	3	English 260	3
Education 200	2	Education 250	2
Social Science requirement	3	Social Science requirement	3
Art 353	2	Biology 102	3
Biology 101	3	Poli. Sci. 103	3
English 207	3	Speech 210	3
	16		17

Third Year

Semester 5		Semester 6	
English 321	3	English comp. elective	3
Education 302	3	English literature elective	3
Music 321	3	Music 232	3
Phys. Sci. 201	3	Phys. Sci. 202	3
Electives	5	Elective	3
	17		15

Continued

Fourth Year**

Semester 7		Semester 8	
English literature elective	3	English 431, Methods and Materials in Teaching English	2
Education 303	3	Initial Performance Practicum	13
Electives	9		
	15		15

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*If English 104 and 108 have been waived, the student should register for Eng 250 or 260.

**English 431 and the I.P.P. courses can be taken during the first semester of the senior year, if the student feels such an arrangement is to his benefit. If the I.P.P. requirement is reversed, Education 303 should be taken in the last semester of the junior year.

Courses of Instruction
English

104. Written English **three hours**
Training in writing and speaking good English, including a short review of grammar, sentence structure, and punctuation; attention to the organization and development of thought, both in student compositions and in expository reading material; guidance in the use of reference books. Laboratory work will be required of those who do not meet certain minimum standards in English.

108. Advanced Written English **three hours**
A continuation of English 104 which stresses rhetorical principles. One of the writing projects is a research paper. Laboratory work will be required of those who do not meet certain minimum standards in English. PR: English 104.
English 108 is a prerequisite for all English courses numbered 200 or above.

109. Technical Report Writing
This is a course designed to provide practice in the writing of expository articles and reports of a technical nature. Considerable emphasis is placed on collecting scientific facts and organizing them in a prescribed technical form. Business letters, memoranda, and other types of written communication common to the industrial and business worlds are also stressed. PR: 104 and consent. Eng. 109 can be substituted for Eng. 108 in certain associate degree programs only.

207. Children's Literature **three hours**
A survey of literature desirable for children; development of principles of selection and standards of evaluation; wide acquaintance with current books.

250. Survey of English Literature **three hours**
A study of the mind and temper of the English people as seen in their literature from Beowulf up to and including the twentieth century.

260. Survey of American Literature **three hours**
An historical study of the American mind as expressed in literature from colonial times to the present.

302. Narrative and Descriptive Writing **three hours**
Practice in writing the simpler forms of fiction and personal narrative with descriptive detail.

311. Literature of the Romantic Period **three hours**
A concentrated study of the works of such writers as Burns, Wordsworth, Coleridge, Byron, Shelley, and Keats.

312. Literature of the Victorian Period **three hours**
A concentrated study of the works of such writers as Tennyson, Browning, Rossetti, Arnold, Swinburne, Mill, Ruskin, and Carlyle.

315. Shakespeare **three hours**
A study of representative histories, comedies, and tragedies.

318. Modern Drama **three hours**
The study of modern dramas—Continental, British, and American—from Ibsen to the present time.

319. General Semantics **three hours**
Study in that branch of linguistics concerned with the nature, structure, and meaning of words and with the role of language in human behavior.

321. Study of the English Language **three hours**
Word history and analysis; diction; descriptive grammar and constructions; fundamentals of composition. Required of all prospective teachers of English; to be taken before I.P.P. Sophomores must have permission of instructor.

322. The Short Story **three hours**
A critical study of this art form based upon the work of British, continental, and American authors.

341. Survey of World Literature **three hours**
A study in translation of some of the great ancient and medieval writers from Homer through Dante.

342. Survey of World Literature **three hours**
A continuation of 341 covering the period from the Renaissance to modern times.

343. The Current Scene in Literature **three hours**
A course showing present-day attitudes as reflected in the work of American and continental writers.

346. The British Novel **three hours**
An historical and critical study of significant British novels of the eighteenth, nineteenth, and twentieth centuries.

347. The American Novel **three hours**
A course designed to trace the development of the American novel from the late eighteenth century to the present. Important American novels will be analyzed in a temporal sequence.

348. The Bible as Literature **three hours**
A study of the literary types and content of *The Bible.*

350. American Prose **three hours**
A survey of the crucial ideas and methods of major prose nonfiction writers in America who have sustained and stimulated American life. Included are such figures as Hemingway, Agee, Mailer, and Baldwin in this century and Thoreau, Mark Twain, Franklin, and Henry Adams from earlier eras.

351. Minority Literature **three hours**
Reflecting the diversity of cultural sources and forms in America, the ideas and methods of writers outside the main literary and social traditions are studied for their contribution to the development of the American experience. Minority writings include the efforts of Black, Latin, Indian and Asian spokesmen as well as the products of European ethnic groups such as Jewish and Irish writers.

352. Southern Literature **three hours**
A study of representative Southern authors and works from colonial times to the present, emphasizing the characteristically Southern themes and point of view. Included are such figures as Twain, Wolfe, Faulkner, Welty, Ransom, and O'Connor.

353. Eighteenth Century Literature **three hours**
A study of important British writers of the period, particularly Swift, Pope, Addision, and Johnson.

360. Major American Poets **three hours**
A study of leading American poets, particularly Poe, Emerson, Whitman, Dickinson, Frost, Pound, and Eliot.

371. Folk Literature **three hours**
A survey course whose chief emphasis is on the study of ballads; kindred material is also studied and collected—superstitions, hymns, riddles, stories, and songs.

372. The Art of the Motion Picture **three hours**
A course designed to trace the evolution of the motion picture from its most humble beginnings to its present sophisticated condition. Such aspects of the film as genre (the western, the horror film), techniques (sound, editing, photography), themes (forbidden knowledge, vengeance), and character types (cops, comics, crooks) will be considered. Although this course is intended for the serious student of the verbal and visual arts, it is also designed to accommodate (as an elective) any interested student who is an avid film goer and desires to improve his appreciation of the films he sees.

376. Civilization—A Personal View **three hours**
An interdisciplinary course using Kenneth Clark's films depicting the cultural life of western man.

413. Expository Writing **three hours**
Study and practice of the various kinds of expository writing with special emphasis upon the skilled production of research papers.

420. Seventeenth Century Literature **three hours**
A study of important British writers of the period, including Donne and Herrick, and emphasizing Milton.

421. Chaucer **three hours**
A study of selected works by Chaucer which help to reveal the range and development of his thought and art. The emphasis will be on *The Canterbury Tales* and *Troilus and Criseyde.*

422. The British Drama **three hours**
The history of English dramatic literature from medieval to modern times.

423. Literary Criticism **three hours**
A study of past and present critical methods and of the theoretical assumptions upon which they are based.

431. Methods and Materials in Teaching English **two hours**
Study and practice in the techniques of teaching the fundamentals of grammar, mechanics, composition, and the varied types of literature; taken as part of the Initial Performance Practicum.

450. Honors Literature **one hour**
This course is intended for the superior student of literature, regardless of major. It consists of guided readings, weekly seminars, and an examination covering each semester's work. In order to graduate "with honors," a student must earn three hours of credit. PR: Permission of Honors Committee. Credit: One hour per semester. The maximum number of credits a student can earn in English 450 is 4 hours.

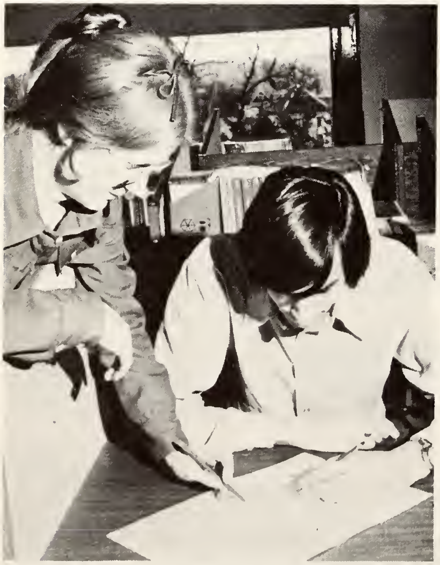
460. Independent Studies **one-four hours**
Intensive study in the work of one or more significant authors. Subject area to be suggested by the student and approved by the instructor. If he so desires, the student may conduct an independent investigation in an area of interest to him and embody the results of his efforts in one or more research papers. PR: Consent of instructor.

FOUNDATIONS PROGRAMS

The Foundations Program is designed to provide instruction in those background skills that are fundamental to doing college level work successfully. The Foundations Program offers many services: a communications course, tutorial help in writing and reading skills, self-instructional materials in science and math, and a listening lab for foreign language and literature students. Students are able to benefit from tutoring and from various kinds of materials: filmstrips, tapes, language kits, programmed materials, reading machines, and learning packages. These services are available to all students on a voluntary, drop-in basis.

Foundations 101. Basic Communications Skills two hours

Individualized instruction in building the fundamental skills necessary to effective writing, reading, listening, and speaking. Students demonstrating weaknesses in writing and/or reading will be encouraged to enroll in the course. Two hours of elective rather than general studies credit will be given. Grades will be assigned on the basis of credit or no credit.



FRENCH

(Division of Language and Literature)

The foreign language programs, French, German, and Spanish, emphasize the achievement of definite and functional results. An important component consists of systematically planned vocabulary building, whereby words are first learned in a simple context, reinforced by a methodical use of cartoons, works of art, and news photographs, all of which are shown by opaque and slide projectors. The vocabulary is later encountered again in the context of interesting reading especially selected to fit the general plan. The student completes each year with a firm and useful fund of language skill and broadened horizons. A large component of French civilization and culture is included. Students preparing to teach French, and those preparing for fields in international relations, have available a series of courses in conversation to establish this advanced skill.

B.A. Degree

Major 30 sem. hrs.

French	101	Elementary French	3
	102	Elementary French	3
	201	Second Year French, or 215 Outside Reading in French I	3
	202	Second Year French, or 216 Outside Reading in French II	3
	301	Literature of the Seventeenth Century	3
	311	French Composition and Conversation I	3
	312	French Composition and Conversation II	3
	321	Contemporary Literature	3
	411	Advanced French Composition and Conversation	3
	426	Main Currents of French Literature and Culture	3

310 Special Topics in French may be substituted for any course.

Minor 24 sem. hrs.

Required Courses 101, 102, 201, 202, and one course from the 311-312 group	15
Electives Selected from any of the Composition and Conversation or Literature Courses	9

Curricula for Teaching Fields and Specializations in French

Single Teaching Field, Grades 7-12

Required Courses 30 Sem. Hrs.

French	101	Elementary French	3
	102	Elementary French	3
	201	Second Year French, or 215 Outside Reading in French I	3
	202	Second Year French, or 216 Outside Reading in French II	3
	301	Literature of the Seventeenth Century	3
	311	French Composition & Conversation I	3
	312	French Composition & Conversation II	3
	321	Contemporary Literature	3
	411	Advanced French Composition and Conversation	3
	426	Main Currents of French Literature and Culture	3

By consent of the instructor, 310 Special Topics in French may be substituted for any course except 411, including 312 if the topic selected includes material covering French civilization and culture.

Subject Specialization, Grades 1-9 or 7-9

Required Courses 24 sem. hrs.

French	101	Elementary French	3
	102	Elementary French	3
	201	Second Year French, or 215 Outside Reading in French I	3
	202	Second Year French, or 216 Outside Reading in French II	3
	311	French Composition & Conversation I	3
	312	French Composition & Conversation II	3
	411	Advanced French Composition and Conversation	3
French Elective			3

By consent of the instructor, 310 Special Topics in French may be substituted for any course except 411.

French Major
Bachelor of Arts Degree

First Year

Semester 1		Semester 2	
French 201 (or 101)*	3	French 202 (or 102)	3
English 104**	3	English 108	3
History or Social Science	3	History or Social Science	3
Elective	3	Electives	6-8
Art 255 or Music 205	2		
Physical Education	1		
	15		15-17

Continued

Second Year

Semester 3		Semester 4	
French 301	3	French 311	3
English 250	3	French 321	3
History or Social Science	3	History or Social Science	3
Science or Math	3	Science or Math	3
Electives or minor	3-5	Electives or minor requirements	3-5
	15-17		15-17

Third Year

Semester 5		Semester 6	
Speech 101	3	French 411	3
French 312	3	Electives or minor requirements	12-14
French 425	3		
English 260	3		
Electives or minor requirements	3-5		
	15-17		15-17

Fourth Year

Semester 7		Semester 8	
Electives or minor requirements		Electives or minor requirements	
	15-17		15-17

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*Students with four or more semesters of high school French begin with French 201. Students beginning with French 101 will substitute the required French courses for elective.

**If English 104 is waived, the student may insert another course (elective or requirement).

Minor

First Year

Semester 1		Semester 2	
French 201 (or 101)*	3	French 202 (or 102)	3

Second Year

Semester 1		Semester 2	
French elective	3	French (one from 311-312)	3

Third Year

Semester 1		Semester 2	
French elective	3	French elective	3

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*Students with four or more semesters of high school French begin with French 201. Students beginning with French 101 will substitute the required French courses for elective.

French
Bachelor of Arts in Education Degree
First or Second Field, Grades 7-12

First Year

Semester 1		Semester 2	
French 201 (or 101)*	3	French 202 (or 102)	3
English 104**	3	English 108	3
History or Social Science	3	History or Social Science	3
Elective	3	Approved humanities elective	2
Art 255 or Music 205	2	General Studies elective	3
Physical Education	1	Education 200	2
	15		16

Second Year

Semester 3		Semester 4	
French 301	3	French 311	3
English 250	3	French 321	3
History or Social Science	3	History or Social Science	3
Science or Math	3	Science or Math	3
Education 250	2	English 260	3
General Studies elective	2	Electives, or requirements in additional field	2
	16		17

Third Year

Semester 5		Semester 6	
French 312	3	French 411	3
French 426	3	Education 303	3
Education 302	3	Electives, or requirements in additional field	10
Speech 210	3		
Electives, or requirements in additional field	5		
	17		16

Fourth Year

Semester 7		Semester 8	
French requirement, if any		French 431, or Methods in additional field	2
Electives, or requirements in additional field		Education 430	3
		Education 432	2
		Education 433	3
		Education 450	6
	16		15

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*Students with four or more semesters of high school French begin with French 201. Students beginning with French 101 will substitute the required French courses for elective.

**If English 104 is waived, the student may insert another course (elective or requirement).

French
Bachelor of Arts in Education Degree
Subject Specialization, Grades 1-9 or 7-9

First Year

Semester 1		**Semester 2**	
French 201 (or 101)*	3	French 202 (or 102)	3
English 104**	3	English 108	3
History or Social Science	3	History or Social Science	3
Elective	3	Approved humanities elective	3
Art 255 or Music 205	2	General Studies elective	3
Physical Education	1		
	15		15

Second Year

Semester 3		**Semester 4**	
Education 200	2	French 311	3
English 250	3	Education 250	2
History or Social Science	3	History or Social Science	3
Science or Math	3	Science or Math	3
Speech 210	3	English 260	3
Electives, or requirements in additional field	2-3	Electives in additional field	2-3
	16-17		16-17

Third Year

Semester 5		**Semester 6**	
French 312	3	French 411	3
Education 302	3	Education 303	3
Electives, or requirements in additional field	9-11	Electives, or requirements in additional field	9-11
	15-17		15-17

Fourth Year

Semester 7		**Semester 8**	
French requirement, if any		French (or additional field) 431	2
Electives, or requirements in additional field		Education 401	2
		Education 402	2
		Education 403	2
		Education 404	2
		Education 420	6
		Science 412	2
	15-18		18

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*Students with four or more semesters of high school French begin with French 201. Students beginning with French 101 will substitute the required French courses for elective.

**If English 104 is waived, the student may insert another course (elective or requirement).

Courses of Instruction
French

101. Elementary French **three hours**
Pronunciation, oral comprehension and speaking, reading and written drill and composition, elements of grammar. Laboratory.

102. Elementary French **three hours**
Continuation of 101 completing the basic grammatical principles. One year of high school French is also considered as a satisfactory prerequisite for this course.

201. Second Year French **three hours**
A course designed to reinforce and increase knowledge of vocabulary and grammar. The course consists of extensive and intensive reading, the review of grammar, and continued attention to pronunciation and speaking. Interesting reading materials such as short stories are emphasized. There is included the use of a language laboratory. PR: 101 and 102, or two years of high school French, or equivalent.

202. Second Year French **three hours**
The continuation of French 201. PR: 201, or equivalent.

215. Outside Reading in French I **three hours**
A supervised independent study course emphasizing practical reading comprehension based on reading material related to the student's interests. This course is equivalent to French 201. PR: Two years of high school French or its equivalent, and consent of instructor.

216. Outside Reading in French II **three hours**
A continuation of 215. This course is equivalent to French 202. PR: 215 or its equivalent, and consent of instructor.

301. Literature of the Seventeenth Century **three hours**
Reading of the plays of Corneille, Racine, Moliere with outside reports from other classical writers. Comprehension, speaking, reading and writing all stressed. PR: Two years of college French or equivalent. Lab used.

310. Special Topics in French **three hours**
Supervised independent study reflecting the student's needs and interests. By consent of instructor, may be substituted for any course except 411, including 312 if the topic selected includes material covering French civilization and culture. PR: Consent of instructor.

311. French Composition and Conversation I **three hours**
Part of the group consisting of 311 and 312, which may be taken in any order. Writing, conversing, and aural comprehension, with extensive use of audio-visual aids. Emphasis on practical proficiency, grammar, vocabulary building, and phonetics. Language laboratory used. PR: 12 hours of French.

312. French Composition & Conversation II **three hours**
Part of the group consisting of 311 and 312, as described under 311, with content consisting of French civilization and culture.

321. Contemporary Literature **three hours**
Outstanding writers of the twentieth century, such as Gide, Proust, Mauriac, Giono, Camus, Valery. Emphasis is on reading comprehension. PR: 12 hours of French.

411. Advanced French Composition and Conversation **three hours**
Writing, conversing, and aural comprehension on an advanced level with extensive use of audio-visual aids. Emphasis on a high level of practical proficiency, grammar, vocabulary, and pronunciation. PR: 18 hours of French, including one previous conversation course, and to be taken as late as possible in the sequence of courses.

426. Main Currents of French Literature and Culture **three hours**
A coordinated study of French literature and culture from a thematic and unitary standpoint. The main and unique currents of French contribution to world civilization are distinguished. The period 1700-1900 is emphasized as exemplifying most of these currents in their complex modern forms, leading to the contemporary period taken up in French 321. PR: French 202.

431. Methods and Materials in Teaching French **two hours**
Study and practice in teaching French language and literature, grades 7-12.

GERMAN

The foreign language programs, emphasize the achievement of definite and functional results. An important component consists of systematically planned vocabulary building, whereby words are first learned in a simple context, reinforced by a methodical use of cartoons, works of art, and news photographs, all of which are shown by opaque and slide projectors. The vocabulary is later encountered again in the context of interesting reading especially selected to fit the general plan. The student completes each year with a firm and useful fund of language skill and broadened horizons. An ample component in German civilization and culture is included. A German minor is available, as well as course work for those desiring to do additional reading under supervision.

Minor 18 sem. hrs.

Required Courses

101, 102	First Year German, or equivalent	6
201, 202	Intermediate German, or equivalent	6

Electives from the following courses:

210	Masterpieces of German Literature	3
301	The German Novelle	3
302	German Drama and Lyric Poetry	3
303	Special Topics	3

First Year

Semester 1		Semester 2	
German 101	3	German 102	3

Second Year

Semester 3		Semester 4	
German 201	3	German 202	3

Third Year

Semester 5		Semester 6	
German elective	3	German elective	3

Courses of Instruction
German

101. First Year German **three hours**
The elements of German grammar; simple reading exercises, pronunciation; written assignments.

102. First Year German **three hours**
A continuation of the above course; special topics in grammar and greater emphasis on reading. PR: 101 or one unit of high school German.

201. Intermediate German **three hours**
Grammar review; composition; conversation; reading of fiction. The principal aim of the course is the reading of narrative of moderate difficulty. PR: German 102 or equivalent.

202. Intermediate German **three hours**
This course continues the work of German 201. PR: German 201 or equivalent.

210. Masterpieces of German Literature **three hours**
A course emphasizing reading and aural comprehension of a wide range of German poetry, fiction, and drama. May be substituted for German 201 or German 202, with permission of the instructor. Laboratory used. PR: 9 hours German, or permission of instructor.

301. The German Novelle **three hours**
A study of the German Novelle as a literary form of the nineteenth and twentieth centuries, with attention also being given to the German cultural and social environment. Continued work in composition and conversation. PR: 12 hours, or permission of instructor.

302. German Drama and Lyric Poetry **three hours**
A study of selected German plays and lyric poems, with emphasis on the work of Goethe and Schiller. Continued work in composition and conversation, and aural comprehension. PR: 12 hours, or permission of instructor.

303. Special Topics **three hours**
A course of individual study under supervision in a topic and skill of special importance to the student, such as the reading of literary or scientific material, aural comprehension, or pronunciation. Laboratory work may be included. PR: 9 hours, or permission of instructor.

SPANISH

101. Elementary Spanish **three hours**
Grammar, pronunciation, composition, translation.

102. Elementary Spanish **three hours**
PR: Spanish 101 or one year of high school Spanish.

201. Second Year Spanish **three hours**
Rapid reading, grammar and conversation. PR: Spanish 101 and 102 or two years of high school Spanish.

202. Second Year Spanish **three hours**
PR: Spanish 201.

GEOGRAPHY

(Division of Social Science)

Geography minors have the opportunity to (1) acquire an introductory background of geography, (2) analyze and explain the interrelations between man and his environment including the physical, cultural, economic, political activities and problems, the resource base, and (3) study spatial variations in physical, social, economic and political phenomena of major world regions.

Minor B.A. and B.S. Degree 18 sem. hrs.

Required Courses in Geography		
210	Introduction to Geography	3
305	Economic Geography	3
315	Urban Geography	3
Electives		
	Any other courses in geography and 101 Geology	9

Courses of Instruction

210. Introduction to Geography **three hours**
An introduction to the physical and cultural elements of geography with a study of major geographical regions of the world.

305. Economic Geography **three hours**
A study of the production, consumption and exchange of goods by people throughout the world. Consideration is also given to spatial variations and influences of the natural environment and culture. PR: 210.

315. Urban Geography **three hours**
A study of urbanization process including origin, growth, function, spatial patterns, structure and hierarchical arrangement of urban centers, and urban problems, with special references to American cities. PR: 210.

330. Geography of North America **three hours**
A regional economic geography primarily of the United States and Canada from the standpoint of man's activities in relation to his natural surroundings and resources. PR: Geography 210.

340. Geography of Europe **three hours**
A study of the important geographic concepts concerning man's activities in Europe and their importance to the United States and the rest of the world. A general overview will be made of Soviet European geography. PR: Geog. 210.

350. Geography of Latin America **three hours**
This course is a regional study of South America, Central America, Mexico, and the West Indies. PR: 210.

360. Geography of Africa **three hours**
A regional survey of the continent examining the great diversity that characterizes the area. Emphasis is placed on the complexity of the political pattern, the natural resources, economic development, and the physical setting. PR: 210.

370. Geography of Asia **three hours**
The study of Asia for the purpose of understanding the various Asian nations, their economic-geographic regions, major commodities, industry, commerce, and major problems. PR: 210.

GEOLOGY

(Division of Science)

Geology is offered as a fulfillment of the General Studies requirement and as an integral part of various science-oriented teaching fields.

Courses of Instruction
Geology

101. General Geology **three hours**
Two lectures and one two-hour lab per week. This course covers the materials of the earth's crust and the physical and chemical processes operating in and on the earth.

102. General Geology **three hours**
A continuation of 101. Application of physical and chemical processes to interpret the history of the earth. Includes a survey of evolution and the fossil record.

HEALTH, PHYSICAL EDUCATION, RECREATION, AND SAFETY

Health Education

The Division of Health Education, Physical Education, and Recreation offers the following programs associated with the Bachelor of Arts in Health Education: (1) A major teaching field in Health Education, grades 7 through 12, and (2) a subject specialization in Health Education, grades 1 through 9 or 7 through 9. The purpose of the programs is to prepare teachers for health instruction at the elementary, middle school, junior high and high school levels.

Single Teaching Field, Grades 7-12

Course Requirements				28 Sem. Hrs.
Health Related Sciences				6
PE	304	Human Anatomy and Physiology (PR: Biology 101, 102)	3	
PE	306	Psychomotor Learning and Development (PR: Psychology 101, PE 304)	3	
Health Concepts and Knowledge				13
HTH	100	Personal Health	3	
SAF	101	First Aid	2	
HTH	202	Community and Environmental Health (PR: Psychology 101, PE 100)	3	
SAF	203	General Safety Education	2	
HTH	370	Contemporary Health Issues (PR: HTH 100, Psychology 101)	3	
Health Programs				9
HTH	200	Foundations of Health Education	2	
HTH	310	School Health Programs (PR: HTH 100, Psychology 101)	3	
HTH	410	Seminar and Field Work in Health Education (PR: HTH 370)	4	

Subject Specialization, Grades 1-9 or 7-9

Course Requirements				25 Sem. Hrs.
Health Related Sciences				6
PE	304	Human Anatomy and Physiology (PR: Biology 101, 102)	3	
PE	306	Psychomotor Learning and Development (PR: Psychology 101, PE 304)	3	
Health Concepts and Knowledge				13
HTH	100	Personal Health	3	
SAF	101	First Aid	2	
SAF	203	General Safety Education	2	
HTH	202	Community and Environmental Health (PR: Psychology 101, PE 100)	3	
HTH	370	Contemporary Health Issues (PR: HTH 100, Psychology 101)	3	
Health Programs				6
HTH	310	School Health Programs (PR: HTH 100, Psychologh 101)	3	
HTH	400	Health Education for the Elementary Schools (PR: HTH 310)	3	

Health Education Curriculum
Health Education (7-12)

Freshman Year

Semester 1		Semester 2	
Biol. 101 Intro to Biology	3	Biol. 102 Intro to Biology	3
Eng. 104 Written English	3	Eng. 108 Advanced English	3
Social Science	3	Psy. 101 Intro to Psychology	3
HTH 100 Personal Health	3	HTH 100 Personal Health	3
and/or		and/or	
SAF 101 First Aid	2	SAF 203 Gen. Safety Ed	2
and/or		Second Field	3
PE (Any Basic Activity Course)	1	HTH 200 Found of Health	2
Second Field	3		
	16		16

Sophomore Year

Semester 3		Semester 4	
Eng. 250 English Lit	3	Eng. 260 American Lit	3
Social Science	3	Social Science	3
ART 255 History and Appre. of Art	2	Ed. 250 Found. of Education	2
or		HTH 310 School Health	3
MUS 205 Music Appr	2	Second Field	3
HTH 202 Community and Envir. Health	3	Electives	3
Ed. 200 Intro to Education	2		
Second Field	3		
	16		17

Junior Year

Semester 5		Semester 6	
PE 304 Human Anat. and Phys	3	PE 306 Psychomotor Learning and Development	3
HTH 310 School Hlth Programs	3	HTH 370 Contmp. Hlth Issues	3
Ed. 302 Human Growth and Development	3	Ed. 303 Ed. Psychology	3
Speech 210 Speech	3	Second Field and Electives	7
Second Field and Electives	4		
	16		16

Senior Year

Semester 7		Semester 8	
HTH 410 Seminar and Field Work in Health Education	4	Initial Performance Practicum	15
Ed. 303 Educational Psychology	3		
Minor and Electives	9		
	16		

A.B. in Health Education
Grades 1-9 or 7-9

Freshman Year

Semester 1		Semester 2	
Biol. 101 Intro. to Biology	3	Biol. 102 Intro. to Biology	3
Eng. 104 Written English	3	Eng. 108 Adv. Written English	3
Psy. 101 Intro. to Psychology	3	Social Science	3
HTH 100 Personal Health	3	SAF 101 First Aid	2
SAF 203 General Safety Ed.	2	Second Field	5
PE Any Basic Activity	1		
Second Field	3		
	16		16

Sophomore Year

Semester 3		Semester 4	
Eng. 250 English Literature	3	Eng. 260 American Literature	3
Social Science	3	Social Science	3
Art 255 Hist. and Appr. of Art	2	Phy. Sci. 201 Physical Science	3
or		Ed. 250 Found. of American Ed.	2
MUS 205 Music Appreciation	2	Second Field	5
and/or			
HTH 202 Comm. and Environ. Health	3		
and/or			
Ed. 200 Intro. to Education	2		
Second Field	2		
	17		16

Junior Year

Semester 5		Semester 6	
PE 304 Human Anatomy and Phys.	3	PE 306 Psychomotor Learning and Development	3
HTH 310 School Health Programs	3	HTH 370 Contemp. Health Issues	3
Phy. Sci. 202 Physical Science	3	HTH 400 Health for Elem. School	3
Ed. 302 Human Growth and Development	3	Ed. 303 Psychology	3
Speech 210 Speech	3	Electives	4
Electives	2		
	17		16

Senior Year

Semester 7		Semester 8	
Major Field and Electives	16	Initial Performance Practicum	15

Health Education

HTH 100 Personal Health 3 sem. hrs.

A unified approach to health and human nature, emphasizing an evaluation of personal responses to life. Sources of problems and conflicts, such as identity, conformity, academic pressures, addictions, and human sexuality are studied and discussed.

HTH 104 Introduction to Human Anatomy and Physiology **3 sem. hrs.**
(Nursing Students Only)
A study of the basic structures with emphasis on those physiological concepts which help integrate the various systems to the total function of the human organism.

HTH 200 Foundations of Health Education **2 sem. hrs.**
The historical, philosophical, sociological, and scientific foundations of health education.

HTH 202 Community and Environmental Health **3 sem. hrs.**
Community health problems, emphasizing the psychological, sociological, and ecological aspects of environmental health conditions. (PR: Psychology 101, HTH 100)

HTH 310 School Health Programs **3 sem. hrs.**
A comprehensive approach to the development of school health programs based upon contemporary health needs and problems. (PR: HTH 100, Psychology 101)

HTH 370 Contemporary Health Issues **3 sem. hrs.**
A study and analysis of the more critical health problems and issues confronting contemporary society. (PR: HTH 100, Psychology 101)

HTH 400 Health Education for the Elementary School **3 sem. hrs.**
Study of those specific areas of health relating to the needs of elementary school children. (PR: HTH 310)

HTH 410 Seminar and Field Work in Health Education **4 sem. hrs.**
Direct involvement with local public, voluntary health and associated agencies and scheduled seminars, a study of their functions relative to comprehensive programs of health education. (PR: HTH 370)

HTH 412 Drug Abuse Education—Addictions and Dependencies **2 sem. hrs.**
Study and discussion of drug misuse and addiction and dependency related to drugs. Especial concern is given to the contemporary use of drugs by all age groups. Physiological, psychological and sociological implications are discussed.

HTH 415 Human Sexuality and Sex Education **2 sem. hrs.**
Preparation of the student relative to the teaching of those physiological, psychological and sociological relationships inherent in human sexuality.

HTH 431 Methods and Materials for Health Education **2 sem. hrs.**
Curriculum and methods of teaching health education, emphasizing those materials and techniques of instruction appropriate for grades 7-12.

PHYSICAL EDUCATION

The Division of Health Education, Physical Education and Recreation offers programs in Physical Education associated with both the Bachelor of Arts in Education and the Bachelor of Science degrees.

In the Bachelor of Science curriculum, a major program of study is offered in Physical Education for students interested in pursuing careers other than teaching which require knowledge in the area of Physical Education. In the Bachelor of Arts in Education curriculum, the following programs are offered: (1) a major teaching field in Physical Education, grades 7 through 12 and (2) a subject specialization in Physical Education, grades 1 through 9 or 7 through 9. The purpose of the programs is to prepare teachers for instruction in

Physical Education at the elementary, middle school, junior high, and high school levels.

Bachelor of Science

Major

Course Requirements					31 Sem. Hrs.
Sciences					6
PE	304	Human Anatomy and Physiology (PR: Biology 101, 102)	3		
PE	306	Psychomotor Learning and Development (PR: Psychology 101, PE 304)	3		
Movement Experiences					14
		Gymnasium and Field Experiences		2	
PE	108W	Fundamental Skills and Activities	2		
		or			
PE	118M	Fundamental Skills and Activities	2		
		Rhythms		2	
PE	248	Modern Dance	2		
or					
PE	247	Folk and Square Dance	2		
		Aquatics		1	
PE	130	Beginning Swimming	1		
PE	230	Intermediate Swimming	1		
PE	331	Lifesaving	1		
PE	332	Water Safety Instruction	1		
PE	350	Contemporary Aquatics	2		
		Electives		9	

The student is required to complete a minimum of 9 additional credit hours in those skills which will help insure a balance of competencies.

Professional Foundations and Theory				11
PE	250	Foundations of Physical Education	3	
PE	360	Evaluation and Measurement in Physical Education	2	
PE	361	Practicum in Evaluation and Measurement	2	
PE	362	Organization and Administration of Physical Education	2	
PE	408	Adapted Physical Education	2	

Minor
Requirements same as major

Curricula for Teaching Fields and Specializations in Physical Education

Single Teaching Field, Grades 7-12

Course Requirements					31 Sem. Hrs.
Sciences					6
PE	304	Human Anatomy and Physiology (PR: Biology 101, 102)	3		
PE	306	Psychomotor Learning and Development (PR: Psychology 101, PE 304)	3		
Movement Experiences					14
		Gymnasium and Field Experiences		2	
PE	108W	Fundamental Skills and Activities	2		
		or			
PE	118M	Fundamental Skills and Activities	2		
		Rhythms		2	

PE	247	Folk and Square Dance	2		
		or			
PE	248	Modern Dance	2		
		Aquatics		1	
PE	130	Beginning Swimming	1		
PE	230	Intermediate Swimming	1		
PE	331	Life Saving	1		
PE	332	Water Safety Instruction	1		
PE	350	Contemporary Aquatics	2		
		Electives		9	

The student is required to complete a minimum of 9 additional credit hours to be selected from the following courses to help insure a balance of competencies in individual, dual, and team activities.
PE 126, 130, 131, 136, 140W, 141W, 142W, 143W, 144W, 145W, 146W, 147, 150M, 151M, 152M, 153M, 160M, 161M, 162M, 163M, 164M, 170M, 171M, 172M, 173M, 230, 241, 242M, 243W, 245, 247, 248, 330, 331, 332, 350.

Professional Foundations and Theory					11
PE	250	Foundations of Physical Education	3		
PE	360	Evaluation and Measurement in Physical Education	2		
PE	361	Practicum in Evaluation and Measurement	2		
PE	362	Organization and Administration of Physical Education	2		
PE	408	Adapted Physical Education	2		

It is recommended that all major students apply for membership in the local student HPER Association with Divisional approval.

Subject Specialization, Grades 1-9 or 7-9

Course Requirements					25 Sem. Hrs.
Sciences					6
PE	304	Human Anatomy and Physiology (PR: Biology 101, 102)	3		
PE	306	Psychomotor Learning and Development (PR: Psychology 101, PE 304)	3		
Movement Experiences					11
		Gymnasium and Field Experiences		2	
PE	108W	Fundamental Skills and Activities	2		
		or			
PE	118M	Fundamental Skills and Activities	2		
		Rhythms		2	
PE	248	Modern Dance	2		
		or			
PE	247	Folk and Square Dance	2		
		Aquatics		1	
PE	130	Beginning Swimming	1		
PE	230	Intermediate Swimming	1		
PE	331	Life Saving	1		
PE	332	Water Safety Instruction	1		
PE	350	Contemporary Aquatics	2		
		Electives		6	

The student is required to complete a minimum of 6 additional credit hours in those skills which will help insure a balance of competencies.

Professional Foundations and Theory					8
PE	250	Foundations of Physical Education	3		
PE	329	Physical Education for the Elementary School	3		
PE	408	Adapted Physical Education	2		

It is recommended that all subject specialization students apply for membership in the local student HPER Association with Divisional approval.

B.S. in Physical Education

Freshman Year

Semester 1	
Biol. 101 Intro to Biology	3
Eng. 104 Written English	3
Psy. 101 Intro to Psychology	3
PE 108W Fundamental Skills and Activities	2
or	
PE 118M Fundamental Skills and Activities	2
Minor Field	5
	16

Semester 2	
Biol. 102 Intro to Biology	3
Eng. 108 English	3
History or Social Science	3
PE Electives (241-242M-243W)	2
Minor Field	5
	16

Sophomore Year

Semester 3	
Eng. 250 Survey of English Literature	3
History or Social Science	3
PE 230 Intermediate Swimming	1
PE 247 Folk and Square Dance	2
ART 255 History and Appreciation of Art	2
or	
MUS 205 Music Appreciation	2
or	
PE Electives	2
Minor and electives	5
	16

Semester 4	
Eng. 260 Survey of American Literature	3
History or Social Science	3
PE 250 Foundations of Physical Education	3
PE 248 Modern Dance	2
PE Electives	3
Minor and Electives	3
	17

Junior Year

Semester 5	
PE 304 Human Anatomy and Physiology	3
PE 360 Evaluation and Measurement in Phy. Ed.	2
PE 362 Organization and Admin. of Phy. Ed.	2
PE Electives	2
Minor and Electives	7
	16

Semester 6	
PE 306 Psychomotor Learning and Development	3
PE 361 Practicum in Evaluation and Measurement	2
Speech 101	3
PE Electives	2
Minor and Electives	6
	16

Senior Year

Semester 7	
PE 408 Adapted Physical Education	2
PE Electives	2
Minor and electives	12
	16

Semester 8	
PE Electives	2
Minor and Electives	14
	16

Physical Education 7-12

Freshman Year

Semester 1	
Biol. 101 Intro to Biology	3
Eng. 104 Written English	3
Psy. 101 Intro to Psy	3
PE 108W Funda Skills and Act	2
or	
PE 118M Funda Skills and Act	2
Phys Ed Electives	
and	
Second Field	5
	16

Semester 2	
Biol. 102 Intro to Biology	3
Eng. 108 Adv Written English	3
Social Science	3
PE 241 Individual - Dual Sports	2
or	
PE 242M Team Sports	2
or	
PE 243W Team Sports	2
Second Field	5
	16

Sophomore Year

Semester 3	
PE 250 Foundations of PE	3
Eng. 250 English Literature	3
Social Science	3
Art 255 Hist and Appre of Art	2
or	
Mus 205 Music Appr	2
Ed. 200 Intro to Ed	2
PE 230 Interm Swimming	1
and/or	
PE 247 Folk and Square Dance	2
Minor and PE Elective	3
	17-18

Semester 4	
Eng. 260 American Literature	3
Social Science	3
Ed. 250 Found of Am Ed	2
PE 248 Modern Dance	2
Second Field and Electives	6
	16

Junior Year

Semester 5	
PE 304 Human Anatomy and Phys	3
PE 360 Eval and Measurement in Phys Ed	2
PE 362 Org and Admin of Phys Ed	2
and/or	
PE 408 Adapted Phys Ed	2
Speech 210 Speech	3
Minor and Electives	6
	16

Semester 6	
PE 306 Psychomotor Learning and Devel	3
PE 361 Pract in Eval and Measurement	2
Ed. 302 Human Growth	3
Social Science	3
Minor and Electives	5
	16-18

Senior Year

Semester 7	
Social Science	3
Ed. 303 Ed Psy	3
Minor and Electives	11
	17

Semester 8	
Ed. 431 Methods and Materials in Teaching Phys Ed	
Initial Performance Practicum	15

A.B. in Physical Education
Grades 1-9 or 7-9

Freshman Year

Semester 1		Semester 2	
Bio. 101 Intro to Biology	3	Bio. 102 Intro to Biology	3
Eng. 104 Written English	3	Eng. 108 Adv Written English	3
Psych. 101 Intro to Psy	3	Social Science	3
PE 108W Funda Skills and Act	2	PE 241 Individual - Duel Sports	2
or		PE 243W Team Sports	2
PE 118 M Funda Skills and Act	2	Elective	3
Electives	5		
	16		16

Sophomore Year

Semester 3		Semester 4	
Eng. 250 English Literature	3	Eng. 260 American Literature	3
Social Science	3	Social Science	3
Art 255 Hist and Appre of Art	2	PE 250 Found of Phy Ed	3
or		or	
Mus. 205 Music Appre	2	Ed. 250 Found of Am Ed	2
Ed. 200 Intro to Ed	2	PE 230 Interm Swimming	1
PE 230 Interm Swimming	1	or	
or		PE 247 Folk and Square Dance	2
PE 248 Modern Dance	2	PE Elective	5
PE Electives	3		
	14-15		14-18

Junior Year

Semester 5		Semester 6	
PE 304 Human Anat and Phys	3	PE 306 Psychomotor Learning and Devel	3
PE 329 Phys Ed for the Elem School	3	(PR: Psy 101 and PE 304)	
PE 408 Adapted Physical Ed	2	PE 329 Phys Ed for the Elem School	3
Speech 210 Speech	3	Ed. 303 Edu Psy	3
Ed. 302 Human Growth	3	Major Field and Electives	7
Major Field and Electives	3		
	17		16

Senior Year

Semester 7		Semester 8	
Major Field and Electives	16-18	Initial Performance Practicum	15

Health and Physical Education Grades 7-12 Combination

Freshman Year

Semester 1	
Biol. 101 Intro to Biology	3
Eng. 104 Written English	3
Psych. 101 Psychology	3
HTH 100 Personal Health	3
SAF 203 Gen Safety Ed	2
PE 108W Fund Skills and Act	2
or	
PE 118M Fund Skills and Act	2
	16

Semester 2	
Biol. 102 Introduction to Biology	3
Eng. 108 English	3
Social Science	3
SAF 101 First Aid	2
HTH 200 Found of Health Ed	2
PE 241 Indiv and Dual Sports	3
	16

Sophomore Year

Semester 3	
Eng. 250 English Literature	3
Social Science	3
ART 255 Hist and Appre of Art	2
or	
MUS 205 Music Appre	2
PE 250 Found of Phys Edu	3
HTH 202 Com and Environ Health	3
or	
Ed. 200 Intro of Edu	2
PE 230 Interm Swimming	1
or	
PE 247 Folk or Square Dance	2
	17

Semester 4	
Eng. 260 American Literature	3
Social Sciences	3
PE 230 Interm Swimming	1
or	
PE 248 Modern Dance	2
Ed. 250 Found of American Ed	2
Required of Electives (Suggested: 241 - 242M - 243W)	5
	16

Junior Year

Semester 5	
PE 304 Human Anat and Phys	3
PE 362 Org and Admin of Phys Ed	3
HTH 310 School Health Prog	3
PE 360 Eval and Measurement in Phys Ed	2
PE 408 Adapted Phy Ed	2
(PE 329 or HTH 400 if 1-9)	3
	16

Semester 6	
HTH 370 Contemp Health Issues	3
PE 361 Pract in Eval and Measurement	2
HTH 410 Seminar and Field Work in Health Ed	4
Speech 210 Speech	3
Ed. 302 Human Growth and Devel	3
Required or Elective	2
	17

Senior Year

Semester 7	
PE 306 Psychomotor Learning	3
or	
PE 408 Adapted Phys Ed	2
PE 360 Eval and Measurement	2
PE 362 Organ and Admin	2
PE 329	3
Ed. 303 Ed Psy	3
Required or Elective	1
	13-14

Semester 8	
Initial Performance Practicum (including PE 431)	15

Courses of Instruction
Physical Education

PE 102W Freshman Physical Education **1 sem. hr.**
Techniques of seasonal team, dual, and individual activities for women designed for the development of basic skills, knowledge and attitudes in physical education.

PE 108W Fundamental Skills and Activities **2 sem. hrs.**
Introduces the student to a program of activities associated with teaching physical education, including those skill-progression patterns and techniques involved in performing specific activities and sports.

PE 114M Freshman Physical Education **1 sem. hr.**
Techniques of seasonal team, dual, and individual activities for men designed for the development of basic skills, knowledge, and attitudes in physical education.

PE 118M Fundamental Skills and Activities **2 sem. hrs.**
Introduces the student to a program of activities associated with teaching physical education, including those skill-progression patterns and techniques involved in performing specific activities and sports.

PE 126 Beginning Tennis **1 sem. hr.**
Introduces the student to basic skills, rules, game situations, and team play.

PE 130 Beginning Swimming **1 sem. hr.**
Specifically designed for the non-swimmer and those with minimal aquatic experience. Instruction in survival swimming, basic strokes, and lifesaving techniques necessary to achieve the goal of making each individual "water-safe."

PE 131 Diving **1 sem. hr.**
Introduces the student to techniques in the art of diving, including an understanding of rules and scoring.

PE 136 Beginning Bowling **1 sem. hr.**
Introduces the skills of bowling and provides practice in game situations.

PE 147 Social Dance **1 sem. hr.**
Provides opportunity for the student to cultivate dance etiquette, develop grace and poise; teaches various social dances such as the waltz, fox trot, polka, and tango.

Instruction in Sport

The following courses are open to all students with sufficient background in the techniques and methods of each sport. Consent of the instructor is required. One semester hour credit will be given upon satisfactory completion of each course.

MEN

PE 150M Football
PE 151M Soccer
PE 152M Physical Development
PE 153M Cross Country Track
PE 160M Tumbling and Apparatus
PE 161M Bowling
PE 162M Wrestling
PE 163M Basketball
PE 164M Swimming
PE 170M Baseball
PE 171M Tennis
PE 172M Golf
PE 173M Track and Field

WOMEN

PE 140W Field Hockey
PE 141W Physical Development
PE 144W Softball
PE 145W Tumbling and

PE 142W Volleyball
PE 143W Basketball
Apparatus
PE 146W Tennis

PE 214 W Officiating Sports **2 sem. hrs.**
The technical and theoretical aspects of officiating Fall and Winter Sports. PR: Consent of instructor.

PE 215W Officiating Sports **2 sem. hrs.**
The technical and theoretical aspects of officiating late Winter and Spring sports. PR: Consent of instructor.

PE 220 M Officiating Sports **2 sem. hrs.**
The technical and theoretical aspects of officiating Fall and Winter Sports. PR: Consent of Instructor.

PE 221 M Officiating Sports **2 sem. hrs.**
The technical and theoretical aspects of officiating late Winter and Spring sports. PR: Consent of instructor.

PE 230 Intermediate Swimming **1 sem. hr.**
Refinement of the fundamental skills of swimming including the eight basic strokes.

PE 241 Individual and Dual Sports **2 sem. hrs.**
Co-educational instruction in skill-progression, including the study of methods in teaching individual and dual sports.

PE 242M Team Sports **2 sem. hrs.**
Acquaints male students with the skill-progression techniques and teaching methods of team sports.

PE 243W Team Sports **2 sem. hrs.**
Acquaints female students with the skill-progression techniques and teaching methods of team sports.

PE 245 Gymnastics **2 sem. hrs.**
An introduction to the knowledges and skills specific to the competitive events of: floor exercise, vaulting, parallel bars, rings, balance beam, side horse, high bar, and trampoline.

PE 247 Folk and Square Dance **2 sem. hrs.**
A survey of the history and development of folk and square dancing. Development of necessary skills for participation and teaching.

PE 248 Modern Dance **2 sem. hrs.**
An introduction to modern dance, providing instruction in space, time, quality of movement, dance positions, creative dance techniques, composition, and methods of teaching rhythmic patterns.

PE 250 Foundations of Physical Education **3 sem. hrs.**
The historical, philosophical, and scientific foundations of physical education.

PE 304 Human Anatomy and Physiology **3 sem. hrs.**
Study of the human organism as an integrated whole, emphasizing those relationships between the systems of the body as they relate to total function. (PR: Biology 101, 102)

PE 305 Kinesiology **3 sem. hrs.**
The science of body movements and its application to daily living which includes knowledge of the basic mechanics of human motion.

PE 306 Psychomotor Learning and Development **3 sem. hrs.**
Psychomotor patterns of development from infancy through adulthood, including the study of motor learning and kinesthesis. (PR: Psychology 101, PE304)

PE 314W Theory of Coaching **2 sem. hrs.**
The psychological, philosophical, and technical aspects of coaching Fall and Winter sports.

PE 315W Theory of Coaching **2 sem. hrs.**
The psychological, philosophical, and technical aspects of coaching late Winter and Spring sports.

PE 320M Theory of Coaching **2 sem. hrs.**
The psychological, philosophical, and technical aspects of coaching Fall and Winter sports.

PE 321M Theory of Coaching **2 sem. hrs.**
The psychological, philosophical, and technical aspects of coaching late Winter and Spring sports.

PE 329 Physical Education for the Elementary School **3 sem. hrs.**
Developmental movement experiences, including games and rhythms suitable for elementary school children, including curriculum planning, methods, materials and micro-teaching experience in local elementary schools.

PE 330 Advanced Swimming **1 sem. hr.**
Instruction in advanced skills in the major areas of aquatics.

PE 331 Lifesaving **1 sem. hr.**
Instruction in all aspects of lifesaving including the American Red Cross techniques.

PE 332 Water Safety Instruction **1 sem. hr.**
Methods of instruction in lifesaving and water safety. Satisfactory completion qualifies student for the American Red Cross Instructors Certificate for teaching Senior Lifesaving.

PE 350 Contemporary Aquatics **2 sem. hrs.**
A complete analysis of the field of aquatics including the evaluation of swimming, contemporary swimming mechanics and introduction to swimming pool administration and operation. Eight weeks lecture and eight weeks laboratory.

PE 360 Evaluation and Measurement in Physical Education **2 sem. hrs.**
Study of measureable and evaluative techniques applicable to students and physical education programs. PR: consent.

PE 361 Practicum in Evaluation and Measurement **2 sem. hrs.**
Practical application and experience in the evaluation and measurement of students and physical education programs. PR: consent.

PE 362 Organization and Administration of Physical Education **2 sem. hrs.**
Physical education as an integral part of the total education curriculum, emphasizing program planning, organization, and administration of the service program, intramurals and athletics.

PE 407 Physiology of Exercise **2 sem. hrs.**
Physiological relationships necessary for understanding the response of the body to exercise. Emphasis is placed on aspects of physical fitness and conditioning for the individual throughout life.

PE 408 Adapted Physical Education **2 sem. hrs.**
A study of contemporary methods in adapted and special physical education programs including teaching techniques and program-planning.

PE 431 Methods and Materials in Teaching Physical Education **2 sem. hrs.**
Study and discussion of curriculum and methods of teaching physical education, emphasizing the materials and techniques of instruction appropriate for grades 7-12.

RECREATION

In the Bachelor of Science curriculum, the Division of Health Education, Physical Education, and Recreation offers a major field of study in Recreation. The program is designed for students interested in pursuing careers in recreational-related fields.

Bachelor of Science

Major

Course Requirements					45 sem. hrs.
Professional					8
PE	250	Foundations of Physical Education	3		
REC	282	Community and Industrial Education	3		
PE	362	Organization and Administration of Physical Education	2		
REC	384	Camping and Youth Organizations	3		
REC	385	Recreational Leadership	3		
REC	386	Recreational Field Work	3		
Movement Experiences					12
PE	108W	Fundamental Skills and Activities	2		
		or			
PE	118M	Fundamental Skills and Activities	2		
		Electives		10	

To be determined by student and advisor relative to student progress and interests.

Health and Safety					4
HTH	100	Personal Health	2		
SAF	101	First Aid	2		
SAF	203	General Safety Education	2		
HTH	202	Community and Environmental Health (PR: Psychology 101, HTH 100)	3		
Rhythms and Creative Arts					12
ART	140	Art Structure and Applied Design	3		
PE	147	Social Dance	1		
PE	248	Modern Dance	2		
PE	247	Folk and Square Dance	2		
IE	186	Recreational Crafts	2		
MUS	231	Elementary Music I	3		
IE	286	Crafts	2		
IE	386	Industrial Arts for the Elementary Teacher	2		
Dra.	151	Play Production	2		
Dra.	338	Children's Drama	3		
Dra.	339	Creative Drama Practicum	1		
Dra.	340	Children's Theatre Practicum	1		
Journ.	240	Reporting	1		
Biological Sciences					9
Biol.	101,	102 Introduction to Biology	6		

Additional 3 semester hours to be selected from the following:

Biol.	210	Field Studies in Biology (PR: 101, 102)	3
Biol.	242	Bio-Ecology (PR: 101, 102)	3
Biol.	315	Field Zoology (PR: 101, 102)	3
Biol.	330	Field Botany (PR: 101, 102 or consent of instructor)	3

B.S. in Recreation

Freshman Year

Semester 1	
Biol. 101 Intro to Biology	3
Eng. 104 Written English	3
Psy. 101 Intro to Psy	3
PE 108W Fund Skills and Act	2
or	
PE 118M Fund Skills and Act	2
Rhythms and Creative Arts	3
Minor and Electives	1-4
	15-18

Semester 2	
Biol. 102 Intro to Biology	3
Eng. 108 Adv Written English	3
Social Sciences	3
Health or Safety	2-3
Rhythms and Creative Arts	3
Minor and Electives	1-4
	15-19

Sophomore Year

Semester 3	
Eng. 250 English Literature	3
Social Science	3
PE 250 Found of Phys Ed	3
REC 382 Comm and Indust Ed	3
ART 255 Hist and Appr of Art	2
or	
MUS 205 Music Appre	2
or	
Creative Arts	3
Health and Safety	2-3
Minor and Electives	1-3
	16

Semester 4	
Eng. 260 American Literature	3
Social Science	3
PE 250 Found of Phys Ed	3
or	
REC 282 Comm and Ind Rec	3
Creative Arts	3
Health and Safety	2-3
Minor and Electives	1-3
	15-18

Junior Year

Semester 5	
PE 362 Org and Admin of Phys Ed	3
or	
REC 282 Comm and Ind Ed	3
Speech 101 Speech	3
or	
Health and Safety	2-3
Rhythms and Creative Arts	2-3
or	
Biological Science Electives	3
Minor Field	2-3
	16

Semester 6	
Health and Safety	3
Rhythms and Creative Arts	3
Biology Science Elective	3
Minor Field	6
	15

Continued

Senior Year

Semester 7	
REC 385 Rec Leadership	3
Rhythms and Creative Arts	3
Biological Science	3
Minor and Electives	6
	15

Semester 8	
REC 384 Camping and Youth Organizations	3
Rhythms and Creative Arts	3
Biological Science	3
Minor and Electives	6
	15

B.S. in Recreation and Physical Education (combined program)

Freshman Year

Semester 1	
Biol. 101 Intro to Biology	3
Eng. 104 English	3
Psych. 101 Intro Psychology	3
PE 108W Fund. Skills and Act.	2
or	
PE 118M Fund. Skills and Act.	2
Health and Safety	2-3
Rhythms and Creative Arts	1-2
Electives	1-2
	15-18

Semester 2	
Biol. 102 Intro to Biology	3
Eng. 108 English	3
Social Science	3
Health and Safety	2-3
Rhythms and Creative Arts	1-2
Electives	2
	14-16

Sophomore Year

Semester 3	
Eng. 250 English Literature	3
Social Sciences	3
PE 250 Foun. Phys. Ed.	3
REC 282 Com. and Ind. Ed.	3
or	
ART 255 Hist. and Appr. of Art	2
or	
MUS 205 Music Appreciation	2
PE 230 Inter. Swimming	1
Electives	2-5
	15-18

Semester 4	
Eng. 260 American Lit.	3
Social Sciences	3
PE 250 Found. of Phys. Ed.	3
and/or	
REC 282 Com. and Ind. Ed.	3
Electives	4-7
	15-18

Junior Year

Semester 5	
PE 304 Human Ana. and Phys.	3
PE 360 Eval. and Measurement in Phys. Ed.	3
PE 362 Org. and Admin. of Phys. Ed.	2
Rhythms and Creative Arts	2-3
and/or	
Health and Safety	2
Speech 101	3
Electives	3-5
	15-18

Semester 6	
PE 306 Psychomotor Learning and Development	3
PE 361 Practicum in Eval. and Measurement	2
REC 384 Camping and Youth Org.	3
Rhythms and Creative Arts	2-3
Biological Sciences	3
Electives	3-4
	15-18

Continued

Senior Year

Semester 7		Semester 8	
PE 408 Adapted Phys. Ed.	2	REC 386 Rec. Field Work	3
REC 385 Rec. Leadership	3	Rhythms and Creative Arts	3-4
Rhythms and Creative Arts	3-4	Biological Sciences	3
Biological Sciences	3	Electives	3
Electives	3-4		
	15-18		15-18

Courses of Instruction
Recreation

REC 282 Community and Industrial Recreation 3 sem. hrs.
Organization and supervision of recreation for community and industrial groups.

REC 384 Camping and Youth Organizations 3 sem. hrs.
Study of camping and organizations serving youth.

REC 385 Recreational Leadership 3 sem. hrs.
Practical experience in organizing and directing group recreational activities. (PR: Consent of Instructor)

REC 386 Recreational Field Work 3 sem. hrs.
Planned observation of playgrounds and recreation centers, including seminars relevant to observations.

Courses of Instruction
Safety Education

SAF 101 First Aid 2 sem. hrs.
Instruction related to preparedness for emergencies and disasters prevalent in our society, including first aid treatment of injuries and other emergency conditions.

SAF 203 General Safety Education 2 sem. hrs.
Designed to acquaint the student with the purpose and need of safety education as an integral component of the overall education program. Areas emphasized will be the teaching and planning of a school safety program and the legal aspects involved.

HISTORY

(Division of Social Science)

Every field of thought and activity has a history, which is the pattern of its development through time. The work of the historian is to discover patterns of development and to combine them into a coherent exposition and interpretation of human experience. This is done by reasoning inductively from evidences of the past, such as written documents, verbal testimony, and significant physical remains.

The great advantages of historical study are:

(1) Emphasis on developmental and evolutionary aspects of human experience.

(2) Examination of many different fields of human activity.

(3) Freedom to select from insights and methods of many other fields.

Major 30 sem. hrs.

Required Courses		
107, 108	United States History	6
111, 112	History of Civilization	6
460, 461		6
Elective Courses		12

Twelve semester hours in history are to be elected with the advisor's approval but must include at least one course from each of the three groups listed below.

Minor 18 sem. hrs.

Required Courses		
107, 108	United States History	6
111, 112	History of Civilization	6
Elective Courses		6
Group I. United States History		
302	West Virginia	3
312	Diplomatic History of the United States	3
315	Colonial America	3
316	The American Federal and National Period	3
317	Civil War and Reconstruction	3
318	Gilded Age to the Great Crash	3
319	Recent America	3
320	American Economic History	3
326	American Constitutional Development	3
371	Social and Intellectual History of the United States	3
373	Social History of the American Woman	3
380	Afro-American History and Culture	3
381	Black Man in America	3
390	The Ecology of Man	3
Group II. Topical Studies in World History.		
250	History of Technology	3
331	Revolutions in History	3
342	Military and Diplomatic History	3
343	Urban History	3
344	Heroes and Hero Worship: Great Leaders of the 20th century	3
375	Philosophy of History	3
Group III. World-Regional Histories.		
A. *Western Europe.*		
305	England	3
325	Mediaeval Europe	3

330	Early Modern Europe	3
340	Modern Europe	3
341	Recent Europe	3
376	Civilization—A Personal View	3
B. *Eastern Europe.*		
450	Russia	3
451	Soviet Union	3
452	Eastern Europe	3
C. *Africa.*		
353	Africa I	3
354	Africa II	3
D. *Latin America.*		
350	Latin America: Colonial Period	3
351	Latin America: National Period	3
455	ABC Powers of Latin America	3
E. *Asia.*		
420	East Asia I	3
421	East Asia II	3
422	South Asia	3
423	Southeast Asia	3
F. *Area Study.*		
410	Area Study	3

History Major Model Schedule

First Year

Semester 1		Semester 2	
Eng. 104 Fresh. English	3	Eng. 108 Fresh. English	3
Science or Mathematics	2-5	Science or Mathematics	2-5
Social Science (General Studies)	3	Social Science (General Studies)	3
U.S. History 107, or World Civilizations 111	3	Language	3
Language	3	U.S. History 108, or World Civilizations 112	3
Physical Education	1		
	15-18		14-17

Second Year

Semester 3		Semester 4	
English 250	3	English 260	3
U.S. History 107, or World Civilizations 111	3	U.S. History 108, or World Civilizations 112	3
Language (2nd yr. level)	3	Language	3
Art 255 or Music 205	2	Minor (a foundation course)	3
Speech 101	3	Elective	3
Minor (a foundation course)	3		
	17		15

Third Year

Semester 5		Semester 6	
History, Group I	3	History, Group II	3
History, Group I, II, or III	3	Minor	6
Electives	9	Electives	6
Minor	3		
	18		15

Continued

Fourth Year

Semester 7		Semester 8	
History, Group III	3	History Seminar 461	3
History, Group I, II, or III	3	Minor	3-9
Minor	3-6	Electives	6
History Seminar 460	3		
Elective	3		
	15-18		15-18

History Minor: 18 credit hours, minimum for B.A. and B.S. degrees, non-teaching

Freshman Year

Semester 1	Semester 2
History 107 or History 111	History 108 or History 112

Sophomore Year

Semester 3	Semester 4
History 107 or History 111	History 108 or History 112

Junior Year

Semester 5	Semester 6
History elective	History elective

Courses of Instruction
History

INTRODUCTORY:

100 Introduction to World History three hours
A rapid survey of world history from the earliest times to the present. Not intended for history majors, students majoring in the social science comprehensive, or other students whose programs require History 111 or History 112.

107. United States History I three hours
The Age of Discoveries to the Reconstruction Era.

108. United States History II three hours
The Reconstruction era to the present time.

111. History of Civilization I three hours
The earliest times to the beginning of the modern era.

112. History of Civilization II three hours
The beginning of the modern era to the contemporary period.

ADVANCED:

250 History of Technology three credit hours.
A survey course from pre-historical tool-making to atomic energy and computers in the 20th century. Credit in history or Industrial-Technical Education.

302. West Virginia three hours
West Virginia history, government, and geography from the first settlements to the present time. PR: History 107, 108.

305 History of England three credit hours
From Roman Britain to the present day.

312. Diplomatic History of the United States three hours
The foreign relations of the United States and the development of basic American foreign policies from the colonial period to the present. PR: History 107, 108.

315. Colonial America three hours
The American colonies from their beginnings to the end of the Revolutionary War. PR: History 107.

316. American Federal and National Period three hours
United States history from the Revolutionary War to the close of the Mexican War. PR: History 107.

317. Civil War and Reconstruction three hours
The victory of the Federal Union over sectional division. PR: History 107, 108.

318. The Gilded Age to the Great Crash three hours
The United States from 1876 to 1929. PR: History 108.

319. Recent America three hours
America's emergence as a leading world power. PR: History 108.

320. American Economic History three hours
Economic development of the United States from the colonial period to the present. PR: History 107, 108.

325. Medieval Europe three hours
Formative development in intellectual, social, economic, and political history from the fall of Rome. PR: History 111.

326. American Constitutional History three hours
The origins of the Constitution of 1787 and the role of leading jurists and landmark cases in shaping the American Constitutional traditions. PR: History 107.

330. Early Modern Europe three hours
From the Renaissance and Reformation to the Age of the French Revolution. PR: History 111, 112.

331. Revolutions in History three credit hours
A study of revolutionary thought and action as a force in world history since ancient times. Major topics include the American and French Revolutions of the 18th century, the Chinese and Russian Revolutions of the early 20th century, and a sampling of more recent revolutionary movements in representative regions of the world.

340. Europe in the Nineteenth Century **three hours**
Nationalism, imperialism, and industrial development before the First World War. PR: History 112.

341. Recent Europe **three hours**
Problems of readjustment in the twentieth century: the League of Nations, Fascism and Communism, the Second World War, the Cold War, the Common Market. PR: History 112.

342. Diplomatic and Military History of Europe **three hours**
The development of military and diplomatic techniques and foreign policies from the Middle Ages to the present day. PR: History 112 or consent of instructor.

343. Urban History **three credit hours**
An examination of the historical role of the city as a concentration of social energies, economic and technological activities, political ambitions, and creative impulses.

344. Heroes and Hero Worship: Great Leaders of the 20th century **3 credit hours**
Selected political, military, and religious leaders of the twentieth century, using biographical and auto-biographical materials to analyse, compare, and contrast their roles in recent and contemporary history.

350. Latin America: Colonial Period **three hours**
Conquests and colonies in South America from 1492 to 1821. PR: History 111, 112.

351. Latin America: National Period **three hours**
Latin American nations from 1821 to the present. PR: History 111, 112.

353. Africa I **three hours**
Development of Africa from the emergence of man in the valleys of central Africa to the official end of the slave trade. PR: History 111 or consent of instructor.

354. Africa II **three hours**
From the European penetration and colonization of Africa to the recent efforts of independent African states to establish viable systems of government. PR: History 112 or consent of instructor.

371. Social and Intellectual History of the U.S. **three hours**
Main currents of social and intellectual history of the U.S. from the colonial period to the present day. PR: 107, 108.

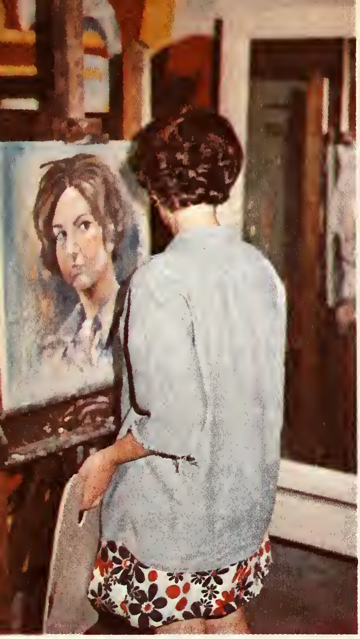
373. Social History of the American Woman **three hours**
An examination of women's changing roles and contributions to American society. PR: History 107 and 108.

375. Philosophy of History **three hours**
A survey of the philosophical systems, both speculative and analytical, that have been advanced to evaluate humanity's historical experience. Credit in either philosophy or history.

376. Civilization — A Personal View **three hours**
An interdisciplinary course using Kenneth Clark's films depicting the cultural life of western man.

380. Afro-American History and Culture **three hours**
The Negro in American life to the Civil War.

381. Black Man in America **three hours**
The history and culture of the Black Man in the United States from 1865 to the present. (Credit in history or sociology)



390. The Ecology of Man **three hours**
A transdisciplinary study of man's relationship to the natural environment, including problems of technology and pollution; historical and philosophical origins of conservation; ecological ethics; and environmental planning.

410. Area Study **arranged**
A study of a region of the world conducted on an interdisciplinary basis. The area and time span studied will be determined by the instructor. PR: History 112.

420. East Asia I **three hours**
Historical and cultural development of China, Japan, and Korea to 1800. PR: History 111 or consent of instructor.

421. East Asia II **three hours**
Impact of the West on China, Japan, and Korea from 1800 to the present. PR: History 112 or consent of instructor.

422. History of South Asia **three hours**
Emphasis on India as a major culture center of Asia. Intensive reading on the effects of colonialism, nationalism, independence, and internal and external problems of India, Pakistan, and Bangladesh on the sub-continent. PR: 112 or consent of instructor.

423. Southeast Asia **three hours**
Brief survey of the traditional history and culture of Indo-China, Malaysia, and Indonesia with major emphasis on the period since 1800 including such topics as colonialism, nationalism, problems of independence, and involvement of Asia in the post World War II power struggle. PR: 112 or consent of instructor.

450. Russia **three hours**
Russian national development from its origin to the Revolutions of 1917. PR: 112.

451. Soviet Union **three hours**
Development of the Soviet Union from the Soviet Revolution to the present. PR: History 112.

452. Eastern Europe **three hours**
The peoples of Eastern Europe from Medieval times to the present, excluding Russia. PR: History 111 or 112.

455. ABC Powers of Latin America **three hours**
An in-depth analysis and study of the three leading powers of Latin America — Argentina, Brazil, and Chile. PR: History 111, 112, or consent of instructor.

Required Courses for History, Social Studies comprehensive majors.

460. Guided U.S. Historical Study **three hours**
Intensive reading on selected topics in American history. To be taken the semester prior to entering the I.P.P. PR: Hist. 107, 108.

461. Guided World Historical Study **three hours**
Intensive reading on selected topics in World History. To be taken the semester prior to entering the I.P.P. PR: Hist. 111, 112.

HOME ECONOMICS

(Division of Education and Home Economics)

Home Economics is defined as the study of human and material forces that affect families and individuals and the interaction between them. It is a profession having a dual role; first, developing concepts, skills and values that contribute to a rewarding and satisfying life and secondly, utilizing these skills for gainful employment. It has synthesized knowledge from its own research and from the physical, biological and social sciences and will apply this knowledge to the improvement of human life. A broad based program is needed for Home Economics at the undergraduate level including the areas of: clothing and textiles; family relations and child development; foods and nutrition; home management and family economics; and housing and home furnishings. The supporting fields should provide a strong interdisciplinary base in order that students may understand individuals and families in contemporary society.

Major 48 sem. hrs.

Required Courses			36
101	Principles of Clothing Construction	2	
102	Advanced Clothing Construction	3	
103	Principles of Clothing Selection	2	
201	Principles of Food Selection and Preparation	3	
202	Advanced Foods	3	
210	Textiles	3	
251	Applied Design	2	
303	Nutrition	3	
310	Family Life Education	3	
312	Consumer Education	3	
315	Home Management	3	
320	Home Planning and Furnishing	3	
330	Child Care and Development	3	
Required Related Courses			12
	Chemistry	8	
	Electives in Science (Consent of Advisor)	4	

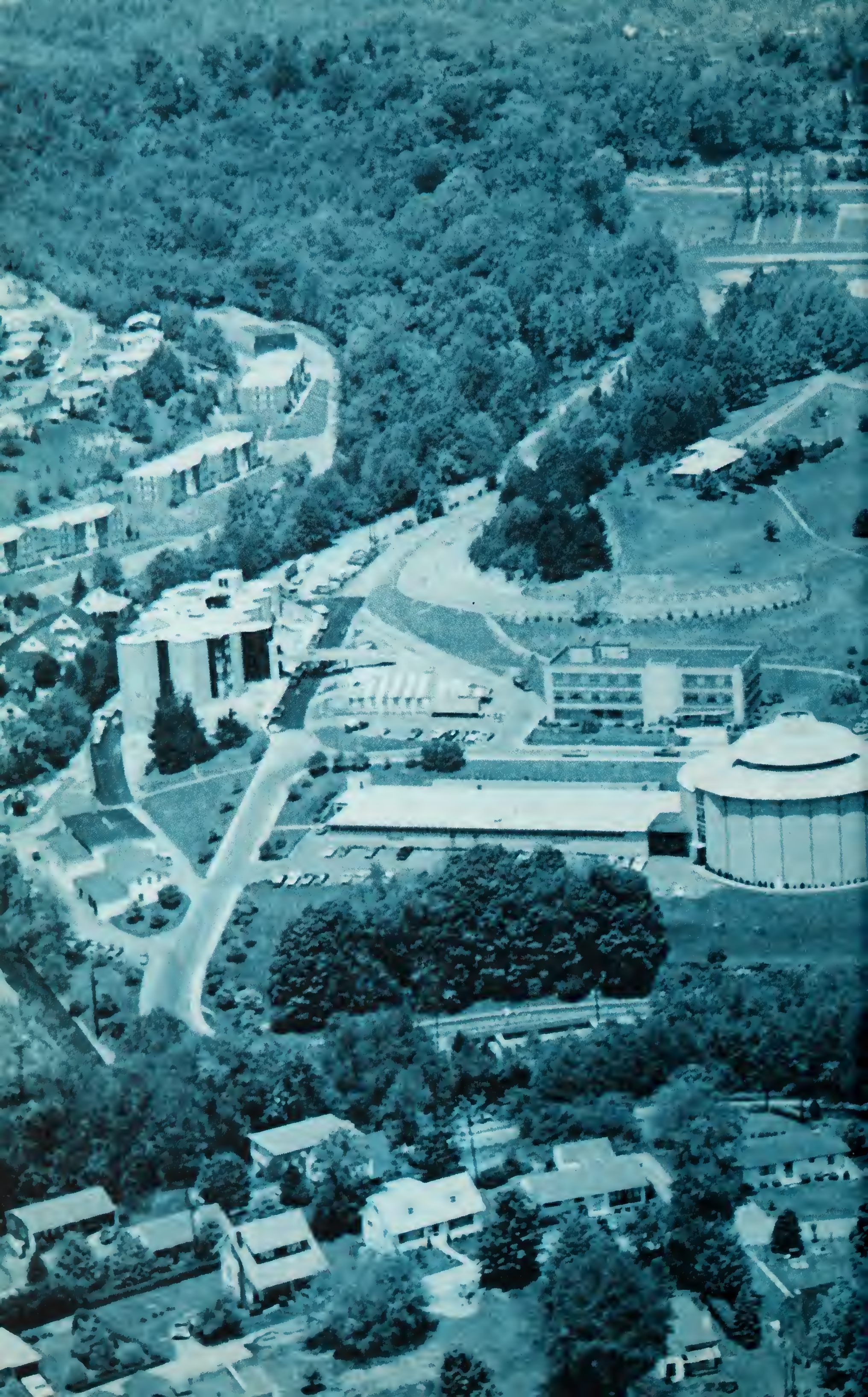
Minor 26-27 sem. hrs.

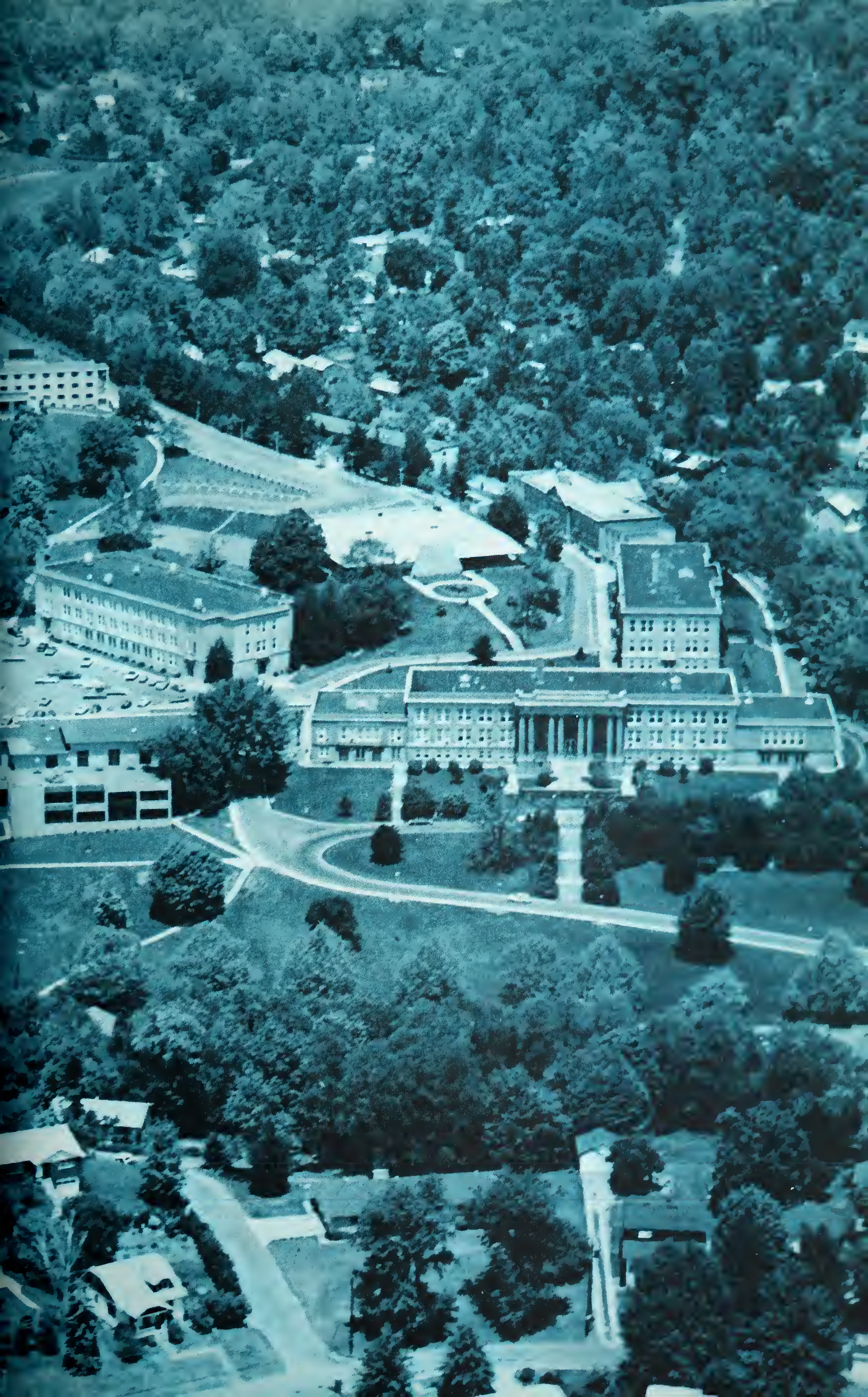
Same requirements as listed under Home Economics Subject Specialization for grades 1-9 or 7-9.

Curricula for Teaching Fields and Specializations in Home Economics

Comprehensive Vocational, Grades 7-12 **47 Sem. Hrs.**

Clothing — Textiles		
*101	Principles of Clothing Construction	2
*102	Advanced Clothing Construction	3
*103	Principles of Clothing Selection	2
*210	Textiles	3
Family Relations — (Child Development)		
*310	Family Life	3
*330	Child Care and Development	3
331	Adolescent Development	2





Foods — Nutrition		
*201	Principles of Food Selection and Preparation	3
*202	Advanced Foods	3
*303	Nutrition	3
Home Management, Household Equipment, Family Economics		
*312	Consumer Education	3
*315	Home Management	3
316	Household Equipment	2
Housing, Home Furnishing		
*251	Applied Design	2
*320	Home Planning and Furnishing	3
351	Home Arts	3
430	Methods in Vocational and Adult Education	2
431	Meth. & Mat. in Teaching Home Economics	2

General Chemistry 101 and 102 strongly recommended.

Subject Specialization, Grades 1-9, 7-9 **26-27 Sem. Hrs.**

*101	Principles of Clothing Construction	2
*103	Principles of Clothing Selection	2
*201	Principles of Food Selection & Preparation	3
	or	
*202	Advanced Foods	3
251	Applied Design	2
*303	Nutrition	3
*310	Family Life	3
*312	Consumer Education	3
	or	
*315	Home Management	3
210	Textiles	3
	or	
316	Household Equipment	2
*320	Home Planning and Furnishing	3
*330	Child Care and Development	3

*Courses marked with an asterisk must be completed prior to admission to the Initial Performance Practicum.

Home Economics
Bachelor of Science Degree

Freshman Year

Semester 1		Semester 2	
H. Ec. 101 P. of Clothing Construction	2	H. Ec. 102 Ad. Clothing Construction	3
H. Ec. 103 P. of Clothing Selection	2	H. Ec. 251 Applied Design	2
Eng. 104 Written English	3	Eng. 108 Adv. and Written English	3
Hist. 111 History of Civilization	3	Hist. 112 History of Civilization	3
Bio. 101 Introduction to Biology	3	Bio. 102 Introduction to Biology	3
Psy. 101 Int. to Psychology	3	Soc. 110 Introductory Sociology	3
Phy. Ed. 102 Fresh. Orientation	1		
	17		17

Continued

Sophomore Year

Semester 3	
H. Ec. 201 P. of Food Preparation	3
H. Ec. 210 Textiles	3
Art 255 History & Appreciation or Music 205 Music Appreciation	2
Speech 101 Fundamentals of Speech	3
Minor Field or Electives	5
	16

Semester 4	
H. Ec. 202 Advanced Foods	3
H. Ec. 310 Family Life Education	3
Minor Field or Electives	10
	16

Junior Year

Semester 5	
H. Ec. 303 Nutrition	3
H. Ec. 330 Child Care & Development	3
Chem. 101 General Chemistry	4
Eng. 250 Survey of English Literature	3
Minor or Electives	2
	15

Semester 6	
H. Ec. 315 Home Management	3
Chem. 102 General Chemistry	4
Eng. 260 Survey of Am. Lit.	3
Minor or Electives	5
	15

Senior Year

Semester 7	
H. Ec. 320 Home Planning & Furnishing	3
Electives in Science	4
Electives	9
	16

Semester 8	
H. Ec. 312 Consumer Education	3
Electives	13
	16

Home Economics
Bachelor of Arts in Education
Vocational Comprehensive Program

Freshman

Semester 1	
H. Ec. 101 P. of Clothing Construction	2
H. Ec. 103 P. of Clothing Selection	2
Bio. 101 Introduction to Biology	3
Eng. 104 Written English	3
Hist. 111 History of Civilization	3
Psy. 101 Introduction to Psychology	3
	16

Semester 2	
H. Ec. 102 Ad. Clothing Construction	3
Bio. 102 Introduction to Biology	3
Eng. 108 Adv. and Written English	3
Hist. 112 History of Civilization	3
Soc. 110 Introductory Sociology	3
Phy. Ed. 102 Freshman Orientation	1
	16

Continued

Sophomore

Semester 3		Semester 4	
H. Ec. 201 P. of Food Preparation	3	H. Ec. 202 Advanced Foods	3
H. Ec. 210 Textiles	3	H. Ec. 331 Adolescent Development	2
P. Sci. 103 American Government	3	H. Ec. 251 Applied Design	2
Eco. 200 Introduction to Economics	3	H. Ec. 310 Family Life Education	3
or		Art 255 History & Appreciation	2
Eco. 201 Introduction to Economics		or	
Edu. 200 Introduction to Education	2	Music 205 Music Appreciation	
Elective	2	Edu. 250 Foundations of Am. Ed.	2
		Speech 210 Speech for the Teacher	3
	16		17

Junior

Semester 5		Semester 6	
H. Ec. 303 Nutrition	3	H. Ec. 312 Consumer Education	3
H. Ec. 316 Household Equipment	2	H. Ec. 315 Home Management	3
H. Ec. 330 Child Care & Development	3	H. Ec. 351 Home Arts	3
Eng. 250 Survey of English Literature	3	Eng. 260 Survey of American Literature	3
Edu. 302 Human Growth & Development	3	Edu. 303 Educational Psychology	3
Electives	2	Electives	2
	16		17

Senior

Semester 7		Semester 8	
H. Ec. 320 Home Planning & Furnishing	3	H. Ec. 431 Methods in Teaching	2
H. Ec. 430 Vocational Methods	2	Initial Performance Practicum	13
Electives	10		
	15		15

Home Economics Specialization

(1-9 or 7-9)

26-27 sem. hours

Freshman

	1st. Sem.	2nd. Sem.
Home Ec. 101	2	
Home Ec. 103		2
Home Ec. 310		3
	2	5

Sophomore

Home Ec. 201 or 202*	3	or	3
Home Ec. 210 or 316	3	or	2
Home Ec. 251			2
	6		2

Junior

Home Ec. 303	3	
Home Ec. 315 or 312		3
Home Ec. 320	3	
Home Ec. 330		3
	—	—
	6	6
TOTAL HOURS	26-27	

*Home Ec. 201 Foods is preferred for Sophomores.

Courses of Instruction
Home Economics

101. Principles of Clothing Construction **two hours**
The basic principles of construction used in making simple garments for school and street wear are introduced. The construction problems are adapted to previous experience.

102. Advanced Clothing Construction **three hours**
Continuation of Home Economics 101
The use of detailed and tailored finishes. Problems of fitting in the construction of suits and varied types of clothing are implemented.

103. Principles of Clothing Selection **two hours**
A course designed to form a basis for the selection of clothing for the individual and her family. Guidelines are based on individual qualities, related art principles, consumer economics, cultural background and psychological influences.

110. Elementary Nutrition **two hours**
A study of principles of nutrition and their application to the selection of food for individuals throughout the life cycle under varying economic, social and cultural situations.

201. Principles of Food Selection and Preparation **three hours**
A study and application of food principles to food preparation including selection, marketing, nutritional value, storage, preservation, and meal service. The class meets for lecture two times a week with one two-and-one-half hour lab period per week.

202. Advanced Foods **three hours**
A continuation of Home Economics 201. Emphasis is placed on preparation and demonstration of foods. The theory and practice of preparing and serving family meals requires the management of time, energy and money spent for food.

210. Textiles **three hours**
A study of textiles from raw materials through the manufacturing and finishing of fabrics as related to performance, quality, care and cost for clothing and household fabrics.

251. Applied Design **two hours**
The development of design principles through experimentation with line, form, space, color and texture. This course is designed to exemplify good taste in selection and use of materials for daily living.

303. Nutrition **three hours**
A study of the principles of nutrition with application of planning adequate diets for normal individuals and family groups of varying cultural and economic levels. National and international problems of nutrition are included.

305. Nutrition in the Public Schools **three hours**
A course presenting the essential principles of nutrition for the teacher in public schools. Included are methods of teaching nutrition to children in their different grade levels. The Federal school lunch program is studied as an integral part of the school nutrition program.

310. Family Life Education **three hours**
A study of the interpersonal relationships of family members as they are affected by modern living. Basic factors in personality development are studied as they affect dating and engagement. Marriage adjustment and beginning family interactions are included.

312. Consumer Education **three hours**
A study of the selection of consumer goods and factors affecting selection such as labeling, advertising, and consumer legislation and credit. Car, health, and life insurance for family security, as well as social security, are studied. Wills and contracts are included.

315. Home Management **three hours**
A study of the management process and its effects on the family. Decision making, economics, effective use of resources and the interaction of values, standards, and goals are all considered for the family. Work simplification to include handicapped workers, work area arrangement, storage and safety are applied to the home.

316. Household Equipment **two hours**
A course based on principles of operation, care, expected performance, intelligent selection, and effective use of equipment in the home. Kitchen and laundry planning, plus laundry techniques are included.

320. Home Planning and Furnishing **three hours**
A course designed to help a family analyze housing needs both physiologically and psychologically. House plans and furnishings are made in relation to use, economy, beauty, and individuality.

330. Child Care and Development **three hours**
A study of the nature, nurture and development of children from pre-natal through pre-school. The changing needs of the child and the variables affecting development are included.

331. Adolescent Development **two hours**
This course is a study of the important aspects of the adolescent's growth, including his relationship to his family, peer group, and to society in his quest for identity.

351. Home Arts **three hours**
A study of the principles of design. Students will gain a basic understanding of home and applied arts through the use of color, texture, and line. Articles will be constructed through the techniques of stitchery, textile printing, and handicrafts.

371. Problems in Interior Design **one to four hours**
Provides an opportunity for the student to pursue directed, independent study in the areas of housing and design. The class will meet a double period twice a week for one half of semester. One hour per semester. This may be repeated in different areas of interest or problems in home furnishings for a maximum of 4 hours credit. Prerequisite: consent of instructor.

402. Tailoring **three hours**

The construction of a basic dress, suit, and accessories with emphasis on selection of fabric, fitting, and tailoring details. Consult instructor for prerequisites.

430. Methods in Vocational and Adult Education **two hours**

Methods and materials in consumer homemaking and occupational education, adult programs, and career education for the secondary, post secondary and adult levels with background on curriculum planning of various programs, and the legislation involved in implementation.

431. Methods and Materials in Teaching Home Economics **two hours**

This is a required course for student teachers. The philosophy and goals of home economics, organization of teaching materials, and techniques, and curriculum planning are included. Selection of equipment and supplies necessary to managing a home economics department is discussed.

TECHNOLOGY

The Division of Technology is organized to present programs including Industrial Arts, Engineering Technology, and a two-year Technical curriculum. Industrial Arts provides a teaching field for those interested in secondary education. Engineering Technology as a major for those pursuing the Bachelor of Science degree leads to industrial employment at the middle management level. The two-year technical curriculum is designed to teach the job-entry skills with an educational foundation on which to build advanced studies.

In each of the three curricula, students are required to utilize sound intellectual decision-making processes. Those who are involved in scientific industrial processes must be mindful of the humanitarian and ecological goals of mankind.

Engineering Technology

The Engineering Technology program provides for a broad general education in mathematics, physical science, technology, business, and the humanities with emphasis upon an understanding of the relationship of these areas to the technological processes of industry.

The curricula of the engineering colleges have tended, in recent years, toward preparing the new engineers for the much needed research, design, and development aspects of industry. This trend has created a shortage of personnel at the level which the newly graduated engineer once occupied. The graduate engineering technologist will be prepared for employment in such industrial positions as manufacturing engineering, product development, technical sales and service, and industrial relations.

The engineering technologist reflects an image which identifies him as a creative and resourceful manager, technician, businessman, supervisor, and diplomat. He must be able to function effectively in a variety of industrial positions which require a knowledge of design, production, and maintenance of industrial materials and equipment, as well as a knowledge of management, and supervision of personnel.

Required Foundation Courses 34 Sem. Hrs.

103	Basic Electricity	3
112	Basic Electronics	4
121	Drafting	3
170	Statics	3
270	Strength of Materials	3
271	Strength of Materials Laboratory	1
180	Materials & Processes of Industry	2
190	Industrial Orientation	1
191	Personnel Prob. & Labor Relations	2
492	Work Study Seminar	4
493	Work Experience Laboratory	8

I.E. 492 and 493 may be waived for students who are employed full or part time if such employment is approved by the Director of Technical Education.

Required Related Courses 28 Sem. Hrs.

Math.	101	Applied Tech. Math I	3

Math.	102	Applied Tech. Math II	3
Chem.	101-102	General Chemistry	8
Phy.	101-102	Introduction to Physics	8
Bus.	309	Industrial Organization & Mgt.	3
Bus.	201	Principles of Accounting	3

Students must choose one of the following options:

Construction Technology Option 20 Sem. Hrs.

224	Architectural Drafting I	4
274-374	Graphic Solutions I & II	2-2
321	Structural Drafting	2
322	Architectural Design	2
372	Surveying	2
373	Computing & Estimating	2
375	Plumbing & Sanitation	2
376	Heating & Air Conditioning	2
392	Blueprint Reading	2-3
473	Contracts & Specifications	2
474	Codes & Practices	2

Drafting Technology Option 20 Sem. Hrs.

221	Graphic Illustration	2
224	Architectural Drafting	4
225	Jigs, Fixtures and Machine Design	4
274-374	Graphic Solutions I & II	2-2
320-420	Drafting Room Techniques I & II	2-2
321	Structural Drafting	2
322	Architectural Design	2
323-423	Electrical Drafting I & II	2-2
373	Computing & Estimating	2
421	Drafting, Planning & Scheduling	2
422	Architectural Drafting III	2
473	Contracts and Specifications	2
474	Codes and Practices	2

Electrical-Electronic Technology Option 20 Sem. Hrs.

203	Electrical Measurements Laboratory	4
206	Electrical Machinery	4
315	Industrial Electronics & Controls	2
316-317	Advanced Electronics I & II	2-2
323-423	Electrical Drafting I & II	2-2
379	Industrial Economy	3
415	Electrical Maintenance	2
416-417	Advanced Electrical Theory I & II	2-2

Industrial Technology Option 20 Sem. Hrs.

171	Machine Shop	4
192	Personnel Administration	2
315	Industrial Electronics & Controls	2
370-470	Manufacturing Processes I & II	2-2
377	Time & Motion Study	2
378	Plant Layout & Materials Handling	2
379	Industrial Economy	3
392	Blueprint Reading	2-3
477	Industrial Management	2
478	Production Controls	2

Mechanical Technology Option (Engineering) 20 Sem. Hrs.

171	Machine Shop	4
206	Electrical Machinery	4
245	Hydraulics	2
274-374	Graphic Solutions I & II	2-2
345	Pneumatics	2
360	Metallurgy	2
370-470	Manufacturing Processes I & II	2-2
371	Thermodynamics	3
379	Industrial Economy	3
445	Fluid Mechanics	3
475	Dynamics	3

Mechanical Technology Option (Power Mechanics) 20 Sem. Hrs.

148	Engine Theory I	4
149	Power Transfer Theory I	4
150	Carburetion & Ignition Theory I	4
151	Hydraulic & Suspension Systems Theory I	4
371	Thermodynamics	3
445	Fluid Mechanics	3

Printing Technology Option 20 Sem. Hrs.

135	Printing Processes	3
138	Composition & Photo Mechanical Preparation	3
231	Image Transfer Mechanisms	3
232	Continuous Tone Photography	2
235	Estimating	3
236	High Contrast Photography	3
237	Layout & Design	3
331	Commercial Graphics	3
333	Printing Techniques I	2
334	Advance Continuous Tone Photography	3
335	Printing Plant Management	3
433	Printing Techniques II	2
434	Color Separation	3
435	Printing Equipment Design & Maintenance	3

Required related courses for Printing Technology Option 2 Sem. Hrs.

Bus. Ed.	101	Beginning Typing or	
	102	Intermediate Typing	2

Curricula for Teaching Fields and Specializations in Industrial Arts

Industrial Arts Education at Fairmont State College is a four-year program leading to the Bachelor of Arts Degree in Education. Its graduates are certified to teach industrial arts in the junior and senior high schools in West Virginia. The course of study was organized in 1947 and its graduates are serving the schools of this and many other states as teachers, supervisors, and administrators of industrial arts and vocational education. The Fairmont Plan for teaching industrial arts personnel is a comprehensive course of study in which the technical subjects are closely correlated with general education, the sciences, humanities, and fine arts with emphasis upon an understanding of the relationships of these areas to the technological processes of industry.

Industrial Arts (Comprehensive grades 7-12) **59 Sem. Hrs.**

Foundation Courses (required) **35 Sem. Hrs.**

A. Education in Technology 12 Sem. Hrs.

*180	Materials and Processes of Industry	2
*181	Multiple Activities I	2
*281	Multiple Activities II	2
*380	Man and Technology	2
*381	Organization & Administration of Industrial Arts	2
*481	Multiple Activities III	2

B. Technical Area 21 Sem. Hrs.

1. Communications

103	Basic Electricity	3
121	Drafting	3
135	Printing Processes	3

18
23

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2. Production

164	Wood Technology	3
169	Metal Processing	3
284	Plastics I or	
289	Ceramics	2

3. Power and Transportation

152	Elements of Transportation	4

C. Education 2 Sem. Hrs.

431	Methods and Materials of Teaching Industrial Arts	2

Thirty-four hours of technical work must be completed before admission to the Initial Performance Practicum.

Areas of Specialization

A student electing a comprehensive program shall complete two Unit Laboratory specializations in addition to the foundation courses. Each Unit Laboratory shall consist of a minimum of twelve semester hours of credit. Of the twenty-four hours needed for the two Unit Laboratory specializations, the student may count not more than six hours in allied studies such as marketing, economics, management, computer science, technical writing, and the engineering sciences provided that such studies will reinforce, strengthen, or expand the competency of the individual student electing to use this option. The hours in the allied studies may be limited to one Unit Laboratory or distributed between the two specializations in any combination. This option or any elective substitution must have the approval of the department chairman.

UNIT LABORATORY SPECIALIZATIONS

Construction

224	Architectural Drafting I	4
372	Surveying	2
373	Computing & Estimating	2
375	Plumbing & Sanitation	2
376	Heating & Air Conditioning	2
473	Contracts & Specifications	2
474	Codes & Practices	2

Drafting

224	Architectural Drafting I	4
225	Jigs, Fixtures, and Machine Design	4
221	Graphic Illustration	2
320	Drafting Room Techniques I	2
321	Structural Drafting	2
420	Drafting Room Techniques II	2

Electives: 274, 285, 322, 323, 374, 421, 422.

Electricity/Electronics

112	Basic Electronics	4
203	Electrical Measurements	4
206	Electrical Machinery	4
315	Industrial Electronics & Control	2
316	Advanced Electronics I	2
317	Advanced Electronics II	2

Electives: 323, 415, 416, 417, 423.

Graphic Arts

138	Composition & Photo Mechanical Preparation	3
231	Image Transfer Mechanisms	3
236	High Contrast Photography	3
237	Layout & Design	3

Electives: 232, 331, 333, 334, 433, 434.

Materials Testing

170	Statics	3
203	Electrical Measurements	4
270	Strength of Materials	3
271	Strength of Materials Laboratory	1
360	Metallurgy	2

Metals

163	Sheet Metal I	2
168	Welding I	4
171	Machine Shop	4
263	Sheet Metal II	2
360	Metallurgy	2
370	Manufacturing Processes I	2
470	Manufacturing Processes II	2
485	School Shop Maintenance II	2
	Electives: 261, 262.	

Power

148	Engine Theory	4
149	Power Transfer Theory	4
150	Carburetion & Ignition Theory	4
151	Hydraulic & Suspension System	4
	Electives: 240, 241, 242, 243, 245, 345.	

Woods

268	Building Construction	4
382	Furniture Construction & Design	2
385	School Shop Maintenance I	2
391	Wood Finishing	2
482	Cabinet Making	2
491	Woodworking III	2

General Shop Certification,
Single Teaching Field, Grades 7-12 **33 Sem. Hrs.**
A. Education in Technology 12 Sem. Hrs.

*180	Materials and Processes of Industry	2
*181	Multiple Activities I	2
*281	Multiple Activities II	2
*380	Man and Technology	2
*381	Organization & Administration of Industrial Arts	2
*481	Multiple Activities III	2

B. Technical Areas 21 Sem. Hrs.

1. Communications

103	Basic Electricity	3
121	Drafting	3
135	Printing Processes	3

2. Production

164	Wood Technology	3
169	Metal Processing	3
284	Plastics I or	
289	Ceramics	2

3. Power and Transportation

152	Elements of Transportation	4

*Courses marked with an asterisk must be completed prior to admission to the I.P.P., plus dditional courses to make three-fourths of the field.

Students pursuing a General Shop Certification as a first field will be equired to qualify in a second teaching field.

The General Shop Certification will qualify for a second teaching field for hose having a first teaching field in another discipline.

A student selecting the General Shop Certification may qualify for any of the approved Unit Laboratory specializations by completing six (6) hours of credit from the desired technical area which must be in addition to the minimal hours required for the General Shop Certification.

Two-year Associate Degree programs are found on pages 275-278

Bachelor of Science Degree
Engineering Technology

Semester 1

PHY 101 Introduction to Physics	4
ENGL 104 Written & Spoken English	3
MATH 101 Applied Tech. Math I	3
I.E. 180 Materials & Processes of Ind.	2
I.E. 191 Personnel Prob. & Labor Rel.	2
I.E. 190 Industrial Orientation	1
	15

Semester 2

PHY 102 Introduction to Physics	4
ENGL 108 Advanced Written English	3
MATH 102 Applied Tech. Math II	3
I.E. 121 Drafting	3
I.E. 103 Basic Electricity	3
	16

Semester 3

ECON 200 Economics	3
PSY 101 Introduction to Psychology I	3
I.E. 170 Statics	3
I.E. 112 Basic Electronics	4
I.E. Option	4
	17

Semester 4

BUS. 309 Industrial Organization & Mgt.	3
I.E. 270 Strength of Materials	3
I.E. 271 Strength of Materials Lab.	1
I.E. Option	4
Electives	4
	15

Semester 5

Summer Work Experience I.E. 942 — I.E. 493	8
	8

Semester 6

ENGL 250 Survey of Eng. Literature	3
Selected Social Studies	3
CHEM 101 General Chemistry	4
Any Physical Education Course	1
I.E. Option	4
	15

Semester 7

ENGL 260 Survey of Am. Literature	3
Selected Social Studies	3
CHEM 102 General Chemistry	4
I.E. Option	4
	14

Semester 8

SPCH 101 Fundamentals of Speech	3
I.E. Option	4
Electives	5
	12

Semester 9

BUS Any Accounting Course	3
MUS 205 Music Appriciation	
or	
ART 255 History & Apprec. of Art	2
Electives	7
	12

Industrial-Technical Education
Bachelor of Arts Degree
Industrial Arts
Comprehensive Teaching Field, 7-12

Students Choosing Second Teaching Field Substitute for I.E. Specialization Subject

First Year

Semester 1	
ENGL 104 Written & Spoken English	3
PH 201 General Physical Science	
I.E. 121 Drafting	3
I.E. 161 Wood Technology	3
I.E. Specialization	4
	16

Semester 2	
ENGL 108 Advanced Written English	3
PH 202 General Physical Science	3
I.E. 180 Materials & Processes of Industry	2
I.E. 181 Multiple Activities I	2
I.E. 135 Printing Processes	3
I.E. Specialization	4
	17

Second Year

Semester 3	
Selected Social Studies	3
SPCH 210 Speech for the Teacher	3
I.E. 169 Metal Processing	3
I.E. 103 Basic Electricity	3
I.E. Specilization	4
	16

Semester 4	
Selected Social Studies	3
EDUC 200 Introduction to Education	2
Any Physical Education Course	2
I.E. 284 Plastics I or I.E. 289 Ceramics	2
I.E. 152 Elements of Transportation	4
I.E. Specialization	4
	17

Third Year

Semester 5	
EDUC 302 Human Growth & Development	3
ENGL 250 Survey of English Literature	3
MUS 205 Music Appreciation or HIST 255 History & Appreciation of Art	2
I.E. 281 Multiple activities II	2
I.E. 381 Organization & Administration of Industrial Arts	2
I.E. Specialization	4
	16

Semester 6	
EDUC 303 Educational Phychology	3
ENGL 260 Survey of American Literature	3
Selected Social Studies	3
I.E. 380 Man & Technology	2
I.E. 481 Multiple Activities III	2
I.E. Elective	3
	16

Continued

Fourth Year

Semester 7	
Selected Social Studies	6
Selected Elective	3
I.E. Specialization	4
EDUC 250 Foundations of American Education	2
	15

Semester 8	
EDUC 430 Reading in the Secondary School	2
EDUC 431 Methods & Materials in Industrial Arts	2
EDUC 432 Evaluation in the Secondary School	3
EDUC 433 Instruction in the Secondary School	3
EDUC 450 Student Teaching Experience	6
	15

Industrial-Technical Education
Bachelor of Arts Degree
Industrial Arts
General Shop Certification

First Year

Semester 1	
ENGL 104 Written & Spoken English	3
PHS 201 General Physical Science	3
I.E. 121 Drafting	3
I.E. 164 Wood Technology	3
Second Teaching Field	4
	16

Semester 2	
ENGL 108 Advanced Written English	3
PH S 202 General Physical Science	3
I.E. 180 Materials & Processes of Ind.	2
I.E. 181 Multiple Activities I	2
I.E. 135 Printing Processes	3
Second Teaching Field	4
	17

Second Year

Semester 3	
Selected Social Studies	3
SPCH 210 Speech for the Teacher	3
I.E. 169 Metal Processing	3
I.E. 103 Basic Electricity	3
Second Teaching Field	4
	16

Semester 4	
Selected Social Studies	3
EDUC 200 Introduction to Education	2
Any Physical Education Course	2
I.E. 284 Plastics I or I.E. 289 Ceramics	2
I.E. 152 Elements of Transportation	4
Second Teaching Field	4
	17

Continued

Third Year

Semester 5

EDUC 302 Human Growth & l Development	3
ENGL 250 Survey of English Literature	3
MUS 205 Music Appreciation or HIST 255 History & Appreciation of Art	2
I.E. 281 Multiple Activities II	2
I.E. 381 Organization & Adm. of I.A.	2
Second Teaching Field	4
	16

Semester 6

EDUC Educational Psychology	3
ENGL 260 Survey of American Literature	3
Selected Social Studies	3
I.E. 380 Man and Technology	2
I.E. 481 Multiple Activities III	2
Second Teaching Field	3
	16

Fourth Year

Semester 7

Selected Social Studies	6
Second Teaching Field	4
Selected Electives	3
EDUC 250 Foundations of Am. Education	2
	15

Semester 8

EDUC 430 Reading in the Secondary School	2
EDUC 431 Methods & Materials in I.A.	2
EDUC 432 Evaluation in l the Secondary School	3
EDUC 433 Inst. in the Secondary School	3
EDUC 450 Student Teaching Experience	5
	15

Courses of Instruction
Division of Industrial-Technical Education

103. Basic Electricity **three hours**
D.C. circuits, the electron theory, resistance, power, magnetism, conductors, and insulators. A.C. circuits, including inductance, capacitance, reactance, impedance and phase relationship.
2 hours lecture — 4 hours laboratory

106. Mathematics for the Techinician I **three hours**
Fundamental operations with signed numbers, factoring, simultaneous equations. Graphs, exponents, trigonometric functions, right triangles, radian measure, and logarithms. Problems are chosen to illustrate basic concepts encountered in industrial technology. May be counted as an elective toward a baccalaureate degree.

107. Mathematics for the Techician II **three hours**
A continuation of I.E. 106. May be counted as an elective toward a baccalaureate degree.

112. Basic Electronics **four hours**
Transistor and vacuum tube technology, their theory of operation and application to electronic circuits. PR: 103 and a Math course.
2 hours lecture—4 hours laboratory

121 Drafting **three hours**
Drawing as the language of industry, a college level course for beginners, including lettering, sketching, orthographic projections, and sectional views with sheet metal design, and an introduction to machine drafting.
6 hours lecture—laboratory

135. Printing Processes **three hours**
An introduction to the Graphic Arts. This course is the basic method of placing visual elements on receiver materials. An investigation is made of the relief, intaglio, planographic, and porus printing methods; experience is gained in each of these areas, also in the various phases of production of these methods.

138. Composition & Photo Mechanical Preparation **three hours**
An elementary course in the make-up of copy. Emphasis is placed on composition and typography. There will be time given to image assembly and mechanicals, along with some basic camera work and elementary stripping.

148. Engine Theory I **four hours**
A survey of engine design and characteristics. The operation and principle of internal combustion engines; and nomenclature, location, and function of stationary and moving parts.
2 hours lecture—4 hours laboratory

149. Power Transfer Theory I **four hours**
A study of the transfer of power to its terminal use through transmissions, torque coverters, propellers, shafts, universals, differentials, and other driving mechanisms, as well as direct transfer by air or other fluids.
2 hours lecture—4 hours laboratory

150. Carburetion and Ignition Theory **four hours**
Methods and principles involved in the flow, metering, atomization, and delivery of fuel. Theory and practice of generation and distribution of electricity through the electrical system.
2 hours lecture—4 hours laboratory

151. Hydraulic and Suspension Systems I **four hours**
The theory and practice of suspension and hydraulic systems used in modern vehicles.
2 hours lecture—4 hours laboratory

152. Elements of Transportation **four hours**
A beginning course to introduce various types of power including both sources and generation with methods of transportation. Systems covered—mechanical, fluid, electrical, water, nuclear, and solar.

163. Sheet Metal I **two hours**
A beginning course including instruction in laying out surface patterns, making useful articles involving typical stretch out, joints, wiring, soldering, and riveting. PR: 121.

164. Wood Technology **three hours**
The theory, application, and treatment of woods and hand and machine wood working.
6 hours lecture—laboratory

168. Welding I **four hours**
The reading of symbols and the production of ferrous weldments, in and out of position, using both gas and electric processes.
6 hours lecture—laboratory

169. Metals Processing **three hours**
Processes and treatment of ferrous and non-ferrous metals at cold and elevated temperatures, including layout, cutting, forming, fastening, casting, and welding.
2 hours lecture—4 hours laboratory

170. Statics **three hours**
A study of force systems in static equilibrium. Includes concurrent, non-concurrent, coplanar and non-coplanar systems.

171. Machine Shop **four hours**
Fundamentals of hand and machine tools, involving the lathe, drillpress, grinder, mill, saw and other metal working machines with problem solving in layout and machine design.
6 hours lecture—laboratory

180. Materials and Processes of Industry **two hours**
A detailed analysis of the general nature and extent of basic American industries with an emphasis on materials and processes. Special attention is given to the technical, consumer, occupational, cultural, recreational, and social functions of the respective industries.

181. Multiple Activities I **two hours**
A multiple materials laboratory designed to run concurrently with Materials of Industry. Students will develop a variety of processes reflecting the materials being studied. Each student will be expected to explore, experiment, and develop ideas which are expressive of the materials.

186. Recreational Crafts **two hours**
Activities involving a variety of tools, materials, processes, and machines are employed to acquaint the student with the crafts. The student is encouraged to develop ideas which are expressive of himself. In addition, the organization and administration of recreational crafts programs is studied.

190. Industrial Orientation **one hour**
An orientation course for the freshman student providing a general view of engineering technology and the place of the technician on the engineering team. Application of the slide-rule to technical problems. Technical report writing.

191. Personnel Problems and Labor Relations **two hours**
A seminar dealing with the problems of labor and management. Wage and hour laws and industrial regulations.

192. Personnel Administration **two hours**
A study of personnel management, industrial supervision and labor-union relations. Also included are job evaluation, wage systems, and merit rating.

203. Electrical Measurements **four hours**
Alternating and direct current circuits, electronic tubes and semi-conductors; assembly and tracing of electrical and electronic circuits. PR: 103.
6 hours lecture—laboratory

206. Electrical Machinery **four hours**
Principles of the construction, operation, and use of direct and alternating current machines. PR: 103.
6 hours lecture—laboratory

221. Graphic Illustration **two hours**
Industrial illustrating. This course involves a study of machine design, metals, and alloys. Small machine assembles will be drawn by the exploded view method showing all parts in relation to other parts. This type of drawing is used extensively by industry for assemblies purposes. PR: 121, 125.

224. Architectural Drafting I **four hours**
Architectural nomenclature and terminology, structural members and materials used in construction of residential units. Symbols, conventions and sectional views are studied and drawn in compliance with the Federal Housing Authority Code.
6 hours lecture—laboratory

225. Jigs, Fixtures, & Machine Design **four hours**
Characteristics of metal and machine parts emphasizing threads, cams, gears, and respective formulas. Principle of location, support and holding parts in jigs and fixtures.
6 hours lecture—laboratory

231. Image Transfer Mechanisms **three hours**
An in depth study of image carriers such as relief plates, lithoplates—both surface and deep etch, gravure plates, and photo silkscreen. Transfer mechanisms are studied in depth. These include the rotary, cylinder and platen type. Certain speciality operations, such as die cutting, perforation, slitting and folding are also covered. PR: 135.

232. Continuous Tone Photography **two hours**
A beginning course in the utilization of the hand-held camera. The emphasis is placed on the taking of pictures and the processing of black and white film. Topics covered include film and print processing, camera basics, camera formats, lens types, portrait photography, photo journalism, and photographic ethics.

235. Estimating **three hours**
The means of pricing and purchasing printed work. Time is spent in investigating the financial structure of the printing concern. PR: 138, 231.

236. High Contrast Photography **three hours**
An in-depth study of the factors that affect film. Experience is gained in the means of production of half-tones and special effects such as posterization, duping, choking, and duo tones. Time is spent with both press proofing and non-press proofing, and in the area of photo fabrication. PR: 138.

237. Layout and Design **three hours**
The function of the art studio and the art director. Time is given to the psychological implications of the printed word and color. The student experiences the various stages of make-up from ideas to camera-ready copy. Time is given to design and production of original work. PR: 138, 231, 232.

240. Engine Theory II **two hours**
A study of the principles of diagnosing, locating, and correcting troubles encountered in engine operation and problems which occur in their testing and servicing. PR: 148.

241. Engine Laboratory II **two hours**

242. Power Transfer Theory II **two hours**
Advanced principles of mechanical power transfer through automatic transmissions and differential mechanisms. PR: 149.

243. Power Transfer Laboratory II **two hours**

245. Hydraulics **two hours**
A study of the concepts of fluid power transmission, control systems, characteristics of pumps and fluid pressurizing mechanisms. Hydraulic cylinders, cams, and fluid motors are explained fully. A survey of control valves, servos and associated devices is also included.

250. History of Technology **three hours**
A survey course from pre-historical tool-making to atomic energy and computers in the 20th century. Credit in history or industrial-technical education.

261. Gas Welding II **two hours**
An advanced course in oxyacetylene welding involving fabrication for structural and industrial maintenance, piping, alloy, and non-ferrous metals. PR: 168.

262. Arc Welding II **two hours**
An advanced course in arc welding dealing primarily with welding metallurgy. A.P.I. and industrial transmissions, metallizing components. Tugsten Inert Gas (T.I.G.), and Gas Metal Arc (M.I.G.) applications. PR: 168.

263. Sheet Metal II **two hours**
A continuation of I.E. 163. Advanced work will be offered in layout problems, joints, and other typical sheet metal situations commonly found in duct work. PR: 163.

268. Building Construction **four hours**
Practices utilized in the erection of residential and industrial buildings with technical information involving problems from ground to roof.
6 hours lecture—laboratory

270. Strength of Materials **three hours**
A study of the behavior of materials under various types of loads, includes stress-strain relationships, torsion, bending stress, riveted and welded joints.

271. Strength of Materials Laboratory **one hour**
Tension, compression, shear, impact, and hardness testing of materials. To be taken concurrently with 270.

274. Graphic Solutions I **two hours**
A study of the spatial relationships required for analysis of three dimensional problems including the techniques of descriptive geometry. Also included is an introduction to graphical arithmetic and algebra. PR: 170, 121.

281. Multiple Activities II **two hours**
A study of industrial education and related fields. A lecture/laboratory experience utilizing media in the multiple activities laboratory in keeping with the baisc industries and their functions as they relate to industrial study.

284. Plastics I **two hours**
A study of the technical aspects of manufacturing processes related to thermoplastic materials. Specific attention is give to types, characteristics, design principles, molding, fabricating, and finishing techniques.

285. Industrial Design **two hours**
Form and function; natural phenomena; simple industrial design solutions in human engineering, material, structure, and methods of manufacture. Model and mechanical drawings of products developed. PR: 121.

286. Crafts **two hours**
The student is encouraged to explore, experiment, and create with a variety of materials and processes.

289. Ceramics **two hours**
A laboratory experience studying the technical aspects of clay products including design principles, forming, decorating, and glazing techniques. The student will be encouraged to explore and develop ideas which are expressive of himself.

315. Industrial Electronics and Controls **two hours**
Analysis of direct and alternating current motor starting equipment across the line and step starters, safety devices, and remote control circuits. Basic vacuum tubes,

power supplies, voltage amplifiers, phase shift circuits, and electronic motor control circuits. PR: 112.

316. Advanced Electronics I **two hours**
A study of rectification with filtering, small signal vacuum tubes and transistor amplifiers. Measuring techniques, use of vacuum, transistor analyzers, and curve tracers. PR: 112.

317. Advanced Electronics II **two hours**
A continuation of I.E. 316 with further study of small signal amplifiers and various other vacuum and solid state devices. PR: 316.

320. Drafting Room Techniques I **two hours**
Analysis of patent drafting, technical and legal consultation, preliminary sketch and drawings, indentures, expressions, and final drafts. PR: Six semester hours in drafting.

321. Structural Drafting **two hours**
The design and checking of suitable steel sections to be used as beams, girders, lintels, columns and struts; the design of simple frames; and the use of bar joists, and open web long joists; the design of timber beams, griders, columns, and wood floors. Different types of fasteners are discussed and vector diagrams are employed to solve for the loads of various members of a frame. In addition to static loads, wind and impact loads are dealt with. PR: 121, 224.

322. Architectural Design **two hours**
A continuation of I.E. 224 in which design of houses, building materials, and specifications are studied in compliance with the Federal Housing Authority Code. Each student will develop and print a complete set of plans, specification sheets, and cost estimate for his own house. PR: 224.

323. Electrical Drafting I **two hours**
An introduction of the various kinds of drawings and drafting techniques used in the design and construction of electrical equipment. Use of basic electrical principles, and typical applications will be utilized in drafting problems. PR: 121, 103.

331. Commercial Graphics **three hours**
An advanced course in commercial art use and techniques. Time is spent in working with specialized processes and materials, such as air brush and camera distortion. Experience is gained in the production of specialized hand prepared copy and illustration rendering. PR: 237.

333. Printing Techniques I **two hours**
An opportunity to investigate an area not included in the regular listing of courses in the communications field. It is possible to do a further in-depth study of some area previously covered. PR: 10 hours. of Graphic Arts and Consent.

334. Advanced Continuous Tone Photography **three hours**
A continuation of I.E. 232, covering such areas as advanced black and white work, large format camera work, artistic expression, and color photography. PR: 232.

335. Printing Plant Management **three hours**
The problems of management as found in the printing industry. Topics include personnel hiring, production, inventory, quality control, shipping, and plant layout. Field trips. PR: 235.

345. Pneumatics **two hours**
Principles and practices in the use of compressed air as a form of power. Valves and controls, power pistons, pressure relief devices, and other items necessary for the effective operation and control of pneumatic equipment.

360. Metallurgy **two hours**
An introduction to the basic elements of metallurgy including structure of metals, properties of metals, smelting, refining, heat treating, and testing.

366. Construction Theory & Lab I **two hours**
Introductory course in construction materials and methods. Physical and mechanical properties of wood. Grades and wood construction. Types of construction and foundations. Cement, gypsum, and masonry materials.

370. Manufacturing Processes I **two hours**
Experience on lathe, milling machines, shapers, planers, drill presses, surface and bench grinders, bench work, use and care of micrometers and measuring tools. Application of threading, turning, facing, taper turning on lathes. Use of the plain dividing head and other milling attachments. Drill grinding. Machine shop safety regulations. Forming flat surfaces on shapers and planers. Power sawing applications. PR: 171.

371. Thermodynamics **three hours**
A basic study of thermodynamic properties of substances, work and heat relationships, the conservation of energy and various gas and vapor cycles. Extensive applications of these principles to practical problems involving heat exchangers, nozzles, and steam turbines. PR: Math 102 or I.E. 107, Physics 101.

372. Surveying **two hours**
Introduction in the use of the engineer's tape, transit, and level, and the methods of recording field data in note form. Field problems associated with the theory will cover horizontal and vertical measurements, differential, profile and other leveling operations, and angular and bearing measurements with the transit. Also included is traverse layout and computing. PR: 107 or Math. 102.

373. Computing and Estimating **two hours**
Problems of approximate and exact methods of arriving at lump sum and unit prices, and estimating total costs for materials and services; accepted methods of itemizing preliminary and final estimates.

374. Graphic Solutions II **two hours**
A nomography, empirical equations, graphical calculus and the corresponding numerical techniques used in the solutions to applied problems. PR: 107 or Math 102 and I.E. 121.

375. Plumbing and Sanitation **two hours**
Study of commercial and residential sanitary systems, sizing and layout of plumbing and sanitary systems, terminology and the interpretation and application of the governing codes.

376. Heating and Air Conditioning **two hours**
Laboratory problems dealing with installation, maintenance and operation of forced warm air heating systems, hot water systems, steam and steam conversion systems, and radiant panel heating systems. System performance testing, air distribution system analysis, equipment operation and ratings. Application of automatic controls and instrumentation of heating systems. Laboratory experiments on design principles of piping systems, duct and duct fittings.

377. Time and Motion Study **two hours**
Fundamentals of work simplification and motion economy using the techniques of motion and time study for the development of effective methods of production.

378. Plant Layout and Materials Handling **two hours**
A study of the economical arrangement of stocks, machines, and layout of aisles for efficient handling of materials and production.

379. Industrial Economy **three hours**
Techniques of engineering economy as related to cost, design, and selection of materials. PR: Math 102 or I.E. 107.

380. Man and Technology **two hours**
An historical background of man and technology as a basis for developing a philosophy as to the place and function of industrial education in the comprehensive school curriculum.

381. Organization and Administration of Industrial Arts **two hours**
Designed to aid the student as a future teacher of industrial arts. Problems of administration, shop arrangement, care of machinery, ordering of materials and supplies, and techniques of shop instruction will be studied. PR: 6 hours of Industrial Arts courses.

382. Furniture Construction and Design **two hours**
A lecture-laboratory course in the developmental function of design, especially as it applies to the area of household furniture. Student problems include the designing of furniture and other household articles which are to be used as projects in the industrial arts laboratories. PR: 164.

384. Plastics II **two hours**
Through research and development oriented activities the student will experiment with and design products utilizing both thermo-setting and thermo-plastic materials. Fabrications, molding, casting, bonding, and heat forming techniques will be studied. PR: 284.

385. School Shop Maintenance I **two hours**
Care, repair, and general maintenance of tools and equipment used in teaching industrial laboratory classes, and the construction of storage facilities, teaching devices, and visual aids.

386. Industrial Arts for the Elementary Teacher **two hours**
The laboratory experiences are derived from the technology of the home, community, and world analogous to the lower, intermediate, and upper elementary grades. A variety of materials, tools, and processes are utilized as each student develops his own ideas. Emphasis is also placed upon the organization and administration of such a program.

391. Wood Finishing **two hours**
A survey course in the materials and methods commonly used in the finishing of furniture and similar articles, and readily applicable to use in high school situations. The various types of dyes, stains, shellecs, varnishes, lacquers, and sealers will be used on sample panels. PR: 164.

392. Blueprint Reading **two-three hours**
A course in the reading of the prints and drawings most commonly found in industrial operations. Emphasis is placed on the development of speed and accuracy in the use of working drawings.

393. The Future of Man **three hours**
A team-taught multi-disciplinary study of the future and its possible alternatives. Areas of concentration are subject to students' choice.

415. Electrical Maintenance **two hours**
Materials, tools, and techniques involved in the maintenance of the electrical and electronic equipment. Switches, breakers, dimmers, timing devices, single and polyphase motors. PR: 103, 315.

416. Advanced Electrical Theory I two hours
A study of special circuits and applications. High frequency circuits, electromagnetic fields and methods of solution of selected problems.

417. Advanced Electrical Theory II two hours
A continuation of I.E. 416.

420. Drafting Room Techniques II two hours
Advanced technical work for specialists in the drafting field. Recent developments, advanced technical and experimental work and technical reports in drafting. PR: 320.

421. Drafting, Planning, and Scheduling two hours
The administrative practices and methods necessary for the effective use of the designing and drafting staffs in the architect's office. Legal requirements, customer relations, costs analysis. PR: 8 semester hours of architectural or mechanical drafting.

422. Architectural Drafting III two hours
Preparation of plans for a commercial or public building. Sketching and instrument drawings, rendering, and reference to building codes. PR: 224.

423. Electrical Drafting II two hours
Industrial and communication electronics symbols; elementary wiring diagrams for A-C amplifier chassis; composite elementary diagram to wiring diagram of sequence controller; sketch of elementary to wiring diagram of a semi-automatic welding controller. PR: 323.

431. Methods and Materials of Teaching Industrial Arts two hours
A course in which the particular problems and techniques of teaching Industrial Arts are dealt with. Emphasis is given to the special methods of handling demonstrations, use of special teaching aids and other related problems peculiar to the Industrial Arts. (Scheduled with the Initial Performance Practicum).

433. Printing Techniques II two hours
A continuation of Printing Techniques I. PR: 333.

434. Color Separation three hours
The theory of color and modern color separation methods. Fake color transmission, and reflection copy methods, color correction methods, and additive and subtractive color theories are explored. Time is provided for the preparation of separations and for the press proofing and non-press proofing methods of same. PR: 231, 232, 236.

435. Printing Equipment Design and Maintenance three hours
The reasons for the development of equipment for the graphic arts area. Time is spent on repair and maintenance of such equipment. The bulk of effort will be on image transfer mechanisms and optical devices and their attendant accessories. PR: 138, 231.

445. Fluid Mechanics three hours
A study of basic concepts of fluid flow, including the Bernoulli Equation, orifices and nozzles. Pipe friction, heat losses and pumping systems are covered in detail. PR: 371.

466. Construction Theory and Lab II two hours
Modern steel, wood, and masonry construction design methods and practices. Problems in beams, girders, and columns. Concrete analysis. A.S.T.M. testing. Fundamentals of utilities control.

470. Manufacturing Processes II two hours
Set up and operation of machines and turret lathes. Practice in spiral and differential indexing. Cam milling. Tool and cutter grinders. Surface grinding, machine tool setup, precision level and test bars. Construction of cemented carbide single point tools. PR: 370.

473. Contracts and Specifications **two hours**
A study of some of the regular and business aspects of the law pertinent to the engineering profession with special emphasis on various types of contracts used in the construction industry. Instruction also is afforded in the field of bidding procedures and in the availability of surety bonds and insurance. Specifications are analyzed from the standpoint of design and construction features.

474. Codes and Practices **two hours**
A study of the general building codes recommended by the National Board of Fire Underwriters and a detailed study of the building codes of local communities. An analysis of building types and the economical use of materials selected for construction.

475. Dynamics **three hours**
A study of the effect of forces on bodies in motion. Analysis of motion by mass acceleration methods. PR: 270.

477. Industrial Management **two hours**
A survey of the operational, financial, marketing and accounting activities of industrial organization. A detailed survey of the duties of management as related to production, personnel, and human factors.

478. Production Controls **two hours**
Current practices in production, planning, routing, scheduling and dispatching, study of production standards, labor efficiency and costs, quantity and quality control.

479. Power Plants **three hours**
A study and analysis of stationary power plants and prime movers, steam generators, steam and gas turbines, and auxiliary equipment. PR: 371.

481. Multiple Activities III **two hours**
Designed to run concurrently with I.E. 380 to permit students to experience activities demonstrative of various methods of laboratory teaching.

482. Cabinet Making I **two hours**
A continuation of I.E. 382. The projects will be made in conformity with the drawings and specifications developed in the previous course. Advanced work in the use of machine tools, techniques, and processes will be stressed. A high level of craftsmanship will be maintained. PR: 164, 382.

485. School Shop Maintenance II **two hours**
A continuation of I.E. 385 with emphasis on industrial application.

491. Woodworking III **two hours**
A continuation of I.E. 164 with emphasis on the use of advanced techniques in the design and construction of home furniture. Particular attention is given to the use of veneers, inlays, overlays, and other advanced methods of enhancing the finished appearance of projects.

492. Work Study Seminar **four hours**
Concepts of the construction and analysis of graphs, charts, and tables. Practical use of handbooks and industrial literature. Discussion of codes of ethics, employment opportunities, letters of application, interviews, and employment references. Engineering and progress reports on work experience.

493. Work Experience Laboratory **eight hours**
On-the-job work experience in a cooperating industry.

495. Industrial Education: Guided Design Seminar **one-four hours**
A seminar in design or research in selected areas of engineering or educational technology. Open to division majors with senior standing in the baccalaureate program. PR: Sixteen credits of I.E. course work in a major area of specialization and consent.

JOURNALISM

(Division of Language and Literature)

The journalism program is designed to meet the needs of both teaching and non-teaching students. It has five broad objectives: to develop an awareness of the tremendous impact of the mass media on society; to build a knowledge of the history of communications, its importance, laws, ethics, and limitations of its freedom; to provide a knowledge of the tools and methods of the communications media; to evaluate data so as to separate facts and truth from chaff, misleading statements, and outright falsehood; and to give practical experience in writing and producing material for the media so that both journalism teaching majors and non-teaching minors are prepared for work in print or broadcast journalism.

A teaching field as well as a non-teaching minor in journalism is offered. Journalism students are urged to elect courses in language, literature, social studies, broadcasting and printing to broaden their backgrounds for working in communications. Enrollees should be able to type before taking any of the practical classes. Non-teaching minors as well as students with journalism as a teaching field must take active parts in publishing the college newspaper and yearbook in order to receive departmental recommendation. Completion of course requirements without practical application as staffers on THE COLUMNS and/or MOUND is not sufficient preparation for the effective journalist.

Journalism courses are open to students in any discipline and are usually offered on an alternate semester basis. Enrollees should begin with either Journalism 240, the prerequisite for most courses numbered above 200, and/or Journalism 270 and 280. Because prospective teachers, both elementary and secondary, need to be aware of the impact of mass communications today, they should consider taking one or more of these introductory courses. Secondary teachers, whatever their major, may choose journalism as an additional teaching field. Those interested in advising school publications should complete the 24 hours required for teacher certification, grade 7-12. Those taking the Language Arts Comprehensive, grade 7-12, are urged to take more than the five hours of journalism courses required in their field. Because they deal with communications skills, English majors may find Journalism 240 and 330 helpful. Both LAC and English majors should consult the journalism faculty about additional courses needed as preparation for advising student newspaper, magazine and/or yearbook staffs.

Minor 16 sem. hrs.

A minimum of sixteen semester hours are required for a non-teaching minor in journalism as part of the Bachelor of Arts or Bachelor of Science degree programs. Journalism 240 should be followed as soon as possible by Journalism 343.

Journalism	240	Reporting I	3
	270	Communications in Society	2
	280	History of American Journalism	3
	312	Publications Problems	3

334	News Photography	2
343	Copy Editing and Makeup	3

Curricula for a Teaching Field in Journalism

Single Teaching Field, Grades 7-12 24 sem. hrs.

Students in this field must complete an additional teaching field for grades 7-12. Journalism 240 should be followed as soon as possible by Journalism 343 so students will be ready for practical experience working on campus publications. Courses marked with an asterisk must be completed before admission to the Initial Performace Practicum.

Journalism	*240	Reporting I	3
	*270	Communications in Society	2
	*280	History of American Journalism	3
	*312	Publications Problems	3
	320	Principles of Advertising	3
	334	News Photography	2
	*340	Journalism Practice	2
	*343	Copy Editing and Makeup	3
			21

Electives from the following:

271	The Newspaper and Society	3
330	Advanced Reporting	3
341	Journalism Practice	2

Journalism Minor ** with the Bachelor of Science or Bachelor of Arts Degree

First Year

Semester 1		Semester 2	
Journalism 280	3	Journalism 240***	3
		Journalism 270	2

Second Year

Semester 3		Semester 4	
Journalism 343***	3	Journalism 312***	3
		Journalism 334	2

**Students should consult journalism faculty for advice about electives in the journalism field. Offerings include Journalism 271 (currently offered only during the summer term) and Journalism 320, 330, 340, and 341.

***Minimum of three hours of laboratory work is required weekly.

Journalism
Bachelor of Arts in Education Degree
(Granted With an Additional Teaching Field, Grades 7-12)

First Year

Semester 1		Semester 2	
English 104*	3	Journalism 240**	3
Art 255 or Music 205	2	Journalism 270	2
Social Science requirement	6	English 108	3
Science or Math requirement	3	Social Science requirement	3
Physical Education	1	Science or Math requirement	3
		Approved humanities elective	2-3
	15		16-17

Second Year

Semester 3		Semester 4	
Journalism 280	3	Journalism 312**	3
Journalism 343**	3	Journalism 320	3
English 250	3	English 260	3
Education 200	2	Social Science requirement	3
General Studies elective	3	Education 250	2
Speech 210	3	General Studies Elective	3
	17		17

Third Year

Semester 5		Semester 6	
Journalism 334	2	Journalism 341	2
Journalism 340	2	Education 303	3
Education 302	3	Electives*** or requirement in additional field	12
Electives*** or requirements in additional field	10		
	17		17

Fourth Year

Semester 7		Semester 8	
Journalism 431 or Methods in additional field	2	Journalism 330	3
Education 430	2	Electives*** or requirements in additional field	12
Education 432	2		
Education 433	3		
Education 450	6		
	15		15

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*If English 104 is waived, the student may elect Journalism 240, 270, or 280.

**Minimum of three hours of laboratory work is required weekly.

***Students should consult journalism faculty for advice about electives related to the journalism field.

NOTE: Study of a foreign language is strongly suggested for the student in this field.

NOTE: Although some journalism classes are offered only on an alternate semester basis, during the fourth year students can still elect to enter the Initial Performance Practicum either semester.

Journalism 271, an elective for the journalism teaching field currently being offered during one semester of summer school, is open to all students regardless of their class rank.

Student planning to attend graduate school should elect to take at least one philiosophy course.

Courses of Instruction
Journalism

240. Reporting I **three hours**
The prerequisite for Journalism 312, 330, 340, 341, 343, qnd 431. Fundamentals of reporting: gathering, evaluating, and writing newspaper copy. Valuable as a test of writing ability and for making the student a more discerning media consumer. Open to second semester freshmen and above. Offered each semester. Three-hour lab arranged.

270. Communications In Society **two hours**
A survey of mass media: advertising, public relations, journalism education, print and broadcast journalism, as an introduction to their place in society and career possibilities.

271. The Newspaper and Society **three hours**
Study of the development of the newspaper's growth from an organ of a political party to the social instrument of today; present practices of the press; the evolving code of ethics and influence of the newspaper; its competitors in broadcast journalism.

280. History of American Journalism **three hours**
Study of the American press, its influence on the nation, development of today's communications media from the seventeenth century, examination of the outstanding names in journalism, freedom of the press and its present implications.

312. Publications Problems **three hours**
Prerequisite: Journalism 240. A practical course for teachers who may supervise a student newspaper, yearbook, magazine or handbook or for anyone charged with producing a publication. Problems of staff organization, training, finance, format, ethics, public relations are covered. Three-hour lab arranged.

320. Principles of Advertising **three hours**
Surveying course of social, psychological, and some technical aspects of advertising. For business and journalism students. Taught by the commerce faculty. Journalism majors and minors should register for Journalism 320, not Bus. 320.

330. Advanced Reporting **three hours**
Prerequisite: A grade of C or higher in Journalism 240. Advanced study of journalistic writing techniques with emphasis on feature writing and depth reporting, and feature assignments for THE COLUMNS and the local daily newspapers. Six-hour lab per week, with the work being done at The Fairmont Times or The West Virginian.

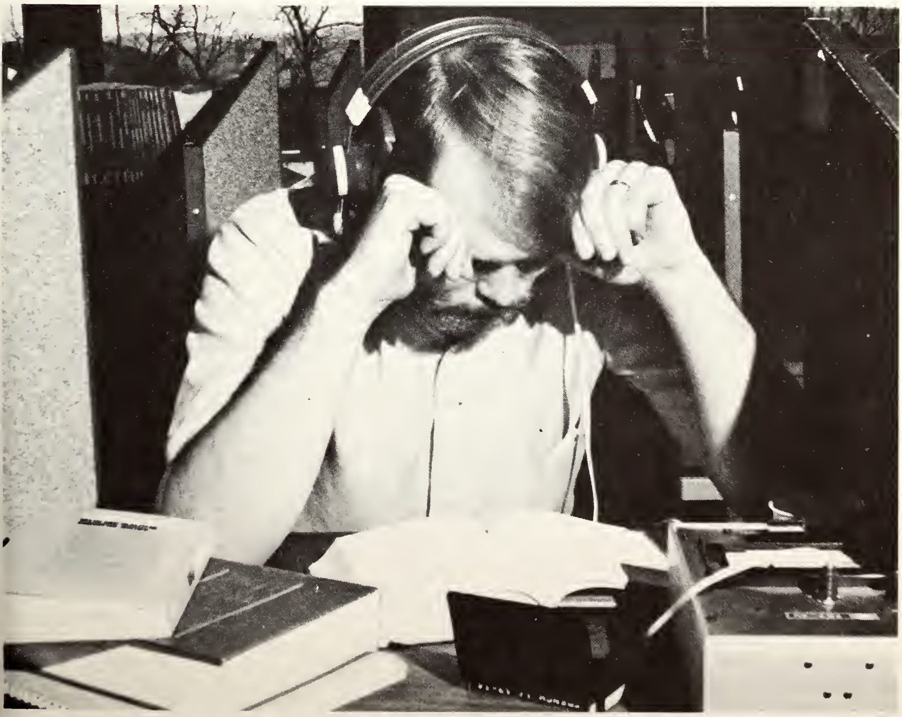
334. News Photography **two hours**
Basic camera and developing techniques are studies during one lecture hour, one demonstration hour, and two-hour lab per week. No laboratory fee is charged, but each student is required to purchase a photography kit containing film and photography equipment. Chemicals are provided by the department. Limited enrollment. Taught by the Industrial Arts faculty. Journalism students should register for Journalism 334, not IE 334. Two-hour lab.

340. Journalism Practice **two hours**
Preerquisite: consent of the instructor. An arranged course providing practical experience on the college newspaper, yearbook, sports information staff, local daily newspapers, radio stations, plus guided reading in the student's field of major journalistic interest. Students should schedule a minimum of three lab hours per week with the secretary in the Public Relations office the first day classes are in session each semester. (Required for the teaching field in journalism. Offered first semester in summer and fall terms.)

341. Journalism Practice **two hours**
Continuation of Journalism 340. (Cannot be substituted for Journalism 340 as a requirement for teacher certification. Offered second semester in spring and summer terms.)

343. Copy Editing and Makeup **three hours**
Prerequisite: Grade of C or higher in Journalism 240. Combination of lecture and laboratory demonstrations in editing and makeup practices. Editing of copy, headline writing, study of type faces and page make-up for all types of newspapers, yearbooks, and magazines. Actual experience on campus publications during three-hour arranged lab.

431. Methods and Materials in Teaching Journalism **two hours**
Part of the Initial Performance Practicum. Study and practice in the techniques of teaching journalism and advising school publications. (Students may elect to take their special methods course in their other required teaching field.)



LIBRARY SCIENCE

The library science program is designed to meet the needs of students preparing to qualify for state certification as librarians in public schools, students who desire a minor that will prepare them for positions in public, academic, and special libraries, and students who are interested in preparing for graduate study in librarianship. Moreover, other students, regardless of subject interests, can profitably elect courses from library science offerings.

Minor 24 sem. hrs.

Persons holding the Bachelor of Arts or Bachelor of Science degree, with a minor in library science, are prepared for employment in academic, public, or special libraries at the associate level. The library associate performs pre-professional tasks that require maturity of judgment, an appreciation of the philosophy of library service and the ability to respond to the needs of people using the library. This minor also provides the prerequisite requirements of many American Library Association accredited library schools.

Lib. Sci.	200	Reference and Bibliography	3
	210	Library Materials for Adolescents	3
	214	Selection of Adult Materials	3
	302	Cataloging and Classification	3
	304	Organization and Administration	3
	400	Library Practice	3
English	207	Children's Literature	3
Education	424	Educational Technology	3

Curricula for a Teaching Field as School Librarian

School Librarian K-12 **21 Sem. Hr.**

The purpose of this program is to prepare students for certification in elementary and secondary school librarianship. This teaching field (K-12) must be selected in combination with a specialization for classroom teaching. Library Science 400 is taken as part of the Initial Performance Practicum.

Lib. Sci.	*200	Reference and Bibliography	3
	*210	Library Materials for Adolescents	3
	*302	Cataloging and Classification	3
	*304	Organization and Administration	3
	400	Library Practice	3
English	*207	Children's Literature	3
Education	*424	Educational Technology	3

*Must be completed prior to admission to I.P.P.

Model Schedule for Library Science Minor

Sophomore Year

Semester 3	**Semester 4**
LS 200 Reference & Bibliography	LS 302 Cataloging & Classification
*Eng. 207 Children's Literature	LS 214 Selection of Adult Materials

Junior Year

Semester 5	**Semester 6**
*Educ. 424 Educational Technology	LS 304 Organization & Administration
LS 210 Library Materials for Adolescents	

Senior Year

Semester 7	**Semester 8**
LS 400	LS 400

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*May be taken either spring or fall semester.

It is possible to go through the program beginning in the Junior year. This sequence would have to be as follows:

Junior Year

Semester 5	**Semester 6**
LS 200 Reference & Bibliography	LS 302 Cataloging & Classification
LS 210 Library Materials for Adolescents	LS 214 Selection of Adult Materials
	LS 304 Organization and Administration

Senior Year

Semester 7	**Semester 8**
Educ. 424 Educational Technology	LS 400
Eng. 207 Children's Literature	

NOTE: LS 210 could be taken Semester 3 and either Educ. 424 or Eng. 207 substituted in Semester 1.

Library Science K-12

Junior Year

Semester 5		Semester 6	
LS 200* Reference and Bibliography	3 Hrs.	LS 302** Cataloging and Classification	3 Hrs.
LS 210* Library Materials for Adolescents	3 Hrs.	LS 304** Organization and Administration	3 Hrs.

Senior Year

Semester 7		Semester 8	
Eng. 207 Children's Literature	3 Hrs.	LS 400 Library Practice (with Initial Performance Practicum)	3 Hrs.
Educ. 424 Educational Technology	3 Hrs.		

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*Offered only 1st semester of each year.

**Offered only 2nd semester of each year.

Note: This sequence may be started in the sophomore year, if desired, but can be completed in the last two years.

Courses of Instruction
Library Science

200 Reference and Bibliography **three hours**
The study of basic reference sources. Evaluation, selection, use, literature searching and bibliographic compilation are stressed.

210 Library Materials for Adolescents **three hours**
A study of the principles and criteria used in evaluating and selecting books and non-book materials for young people, and the practical use of standard selection aids employed in the selection process.

214 Selection of Adult Materials **three hours**
A study of the principles for establishing, developing, and evaluating adult collections; a study of the book trade and publishing industry; a study of selection aids and reviewing media. Emphasis on wide reading, annotating, and book reviewing.

302 Cataloging and Classification **three hours**
An introduction to the principles and techniques of descriptive cataloging, classification, subject analysis of book and non-book materials, and the organization and maintenance of the card catalog. Emphasis is placed upon practical application.

304 Organization and Administration **three hours**
The objectives and procedures involved in the functioning of libraries. Emphasis is on planning the physical facility, equipment, standards, staff, budgeting, ordering, services, instruction, displays and public relations.

400 Library Practice **three hours**
At least 100 hours of practical experience in a school, public, academic, or special library. For Bachelor of Arts in Education this course is taken concurrently with Education 420 or Education 450. PR for B.A. in Education: LS 200, 210, 302, 304, Eng. 207, Educ. 424. PR for B.A. and B.S.: LS 200, 210, 214, 302, 304, Eng. 207, Education 424.

MATHEMATICS

(Division of Mathematics and Science)

Students who major in Mathematics may satisfy the requirements for at least one of five options: (1) The Bachelor of Arts in Mathematics as preparation for graduate study in Mathematics. (2) The Bachelor of Science in Mathematics as preparation for work in computing or for graduate study in computer science. (3, 4, 5) The Bachelor of Arts in Education (with a single teaching field, a comprehensive teaching field, or a subject specialization) as preparation for teaching Mathematics.

Math 116, 315, 316, and 361 are included in the requirements of each of the first four options and should be completed early in the programs.

It is expected that students will present a minimum of four units of high school mathematics including two units of algebra, one unit of integrated geometry (or equivalent), and a fourth unit requiring algebra and geometry as prerequisites. Students who present less than this expected preparation may be required to complete appropriate lower level courses in addition to the state requirements.

Students should consult with their adviser concerning credit for prerequisites and special examinations for course credit. (See advanced standing credit.)

Major (B.A. degree) 30 sem. hrs.

Required Courses			21
116	Calculus I	4	
315	Calculus II	4	
316	Calculus III	4	
361	Abstract Algebra	3	
391	Introduction to Analysis	3	
401	Differential Equations	3	
Electives in Mathematics			9
(To be selected by student and adviser)			
Language: French or German			12

Major (B.S. degree) 30 sem. hrs.

Required Courses			21
116	Calculus I	4	
315	Calculus II	4	
316	Calculus III	4	
335	Probability and Statistics	3	
361	Abstract Algebra	3	
362	Linear Algebra	3	
Electives in Mathematics			6
(To be selected by student and advisor)			
Related Courses			
EDP 103	FORTRAN Programming I	3	3

Minor 21 sem. hrs.

Required 116, 315, 316	12
Electives to be selected with advisor's approval. Three courses from the following with at least one from each group.	9

Group I

335	Probability and Statistics I	3
336	Probability and Statistics II	3

342	Numerical Analysis	3
362	Linear Algebra	3
401	Differential Equations	3
Group II		
200	Mathematical Logic	3
206	Introduction to Theory of Numbers	3
361	Abstract Algebra	3
391	Introduction to Analysis	3
411	Advanced Calculus	3

Curricula for Teaching Fields of Specializations in Mathematics

TEACHING FIELD Comprehensive Grades 7-12 **32 Sem. Hrs.**

*116	Calculus I	4
*315	Calculus II	4
316	Calculus III	4
*361	Abstract Algebra	3
372	Modern Geometry	3
431	Special Methods	2
Electives (must include at least six semester hours of the following: 200, 212, 214, 335, 342, 391)		12

SINGLE TEACHING FIELD Grades 7-12 **18 Sem. Hrs.**

*116	Calculus I	4
*315	Calculus II	4
316	Calculus III	4
*361	Abstract Algebra	3

Electives from the following courses 3

200	Mathematical Logic	3
212	Sets, Relations and Functions	3
214	History of Mathematics	3
335	Probability and Statistics	3
342	Numerical Analysis	3
362	Linear Algebra	3
372	Modern Geometry	3
373	Projective Geometry	3
375	Topology	3
391	Introduction to Analysis	3
393	Intro. to Found. of Mathematics	3
400	Seminar	1-3
401	Differential Equations	3
411	Advanced Calculus	3
413	Introduction to Complex Variables	3

MATHEMATICS—Subject Specialization Grades 1-9 or 7-9 **13 Sem. Hrs.**

Required Courses

*115	Intermediate Mathematics II	4
*210	Mathematics for Elementary Teachers	3
361	Abstract Algebra	3
372	Modern Geometry	3

*Courses marked with an asterisk must be completed prior to admission to the Initial Performance Practicum.

A.B. degree in Mathematics

*English	3	English 108	3
*Math 115	4	*Math 116	4
*History or S.S.	3	*History of S.S.	3
Language	3	Language	3
*Phys. Ed.	1	Electives or Minor	3
Electives or Minor	2		
	16		16

*English 250	3	*English 260	3
Math 315	4	Math 316	4
Language	3	Language	3
Math 200	3	*Speech 101	3
*Art or Music	2	Electives or Minor	3
Electives or Minor	1		
	16		16

**Math 391 or 401	3	Math 361	3
**Math (335 or 362)	3	Math (342)	3
*History S.S.	3	*History or S.S.	3
Electives or Minor	7	Electives or Minor	7
	16		16

**Math (362 or 335)	3	Electives or Minor	16
**Math 401 or 391	3		
Electives or Minor	10		
	16		

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*Satisfying general studies requirement
**Offered in alternate years

B.S. degree in Mathematics (for computing).

English 104	3	English 108	3
Math 112	3	Math 115	4
History of S. Science	3	History or S. Science	3
Phys. Ed.	1	Electives or Minor	6
Electives or Minor	6		
	16		16

English 250	3	English 260	3
Math 116	4	Math 315	4
Math 200	3	Speech 101	3
Art or Music	2	EDP 103	3
Electives or Minor	4	Electives or Minor	3
	16		16

Continued

Math 316	4	Math 361	3
Math 335	3	Math 342	3
History or S. Science	3	History or S. Science	3
Electives or Minor	6	Electives or Minor	7
	16		16

Math 362	3	Electives or Minor	16
Electives or Minor	13		
	16		

Minor

Required for Minor in Mathematics: Math 116, 315, 316 (each course offered every semester) and three courses (9 sem. hrs.) to be selected with the advisors approval. See page 129.

A.B.Ed. degree (comprehensive).

English 104	3	English 108	3
Math 112	3	Math 115	4
History or S. Science	3	History or S. Science	3
Phys. Ed.	1	Science	3
Science	3	Electives	3
Electives	3		
	16		16

English 250	3	English 260	3
*Math 116	4	*Math 315	4
Math 200	3	Speech 210	3
Education 200	2	Education 250	2
Art or Music	2	Electives	5
	16		17

*Math 316	4	*Math 361	3
Math 335	3	Math 342	3
Education 302	3	Education 303	3
History or S. Science	3	History or S. Science	3
Electives	4	Electives	6
	17		16

Continued

*Math 372	3	Math 431	2
Math 362	3	Education 430	2
Electives	9	Education 432	2
		Education 433	2
		Education 450	6
	15		15

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*Required Mathematic Courses. A student who has completed these courses will have satisfied the mathematics requirements for a single teaching field 7-12.

Subject Specialization Grades 1-9 or 7-9

In addition to the mathematics requirements for elementary certification, the following courses meet the requirements for the mathematics Subject Specialization Grades 1-9 or 7-9: Math 115 (offered every semester); Math 361 (offered every second semester); Math 372 (offered every first semester).

Courses of Instruction
Mathematics

101. Applied Technical Mathematics I **three hours**

An introduction to fundamental mechanics and techniques for performing operations with algebraic expressions and subesquently solving linear equations, systems of linear equations, quadratic equations, radical equations and polynominal equations. This course cannot satisfy general studies requirements.

102. Applied Technical Mathematics II **three hours**

A continuation of Math 101, this course is designed to develop methods of solving right triangles and oblique triangles using trigonometry. Other topics discussed will be complex numbers, progressions and the binomial theorem. This course cannot satisfy general studies requirements. PR: Math 101.

110. Mathematics for Elementary Teachers I **three hours**

An introductory course in mathematical ideas. This course includes basic concepts of set theory, properties of operations and a logical development of the real number system and its subsystems. Understanding of the basic operations is stressed. This course cannot be used as math credit toward certification for teaching mathematics. Credit for this course does not count for general requirement in science and mathematics, except for elementary education major.

111. Intermediate Algebra **three hours**

A course for students deficient in high school algebra. This course cannot be used as mathematics credit toward certification for teaching mathematics. Credit may be earned for either Math 111 or 101 but not both courses. PR: One unit of high school algebra.

112. Intermediate Mathematics I **three hours**

An introductory course of integrated algebra, trigonometry, and related topics, for students who have not had an equivalent course in high school. This course cannot be used as mathematics credit toward certification for teaching mathematics.

113. Finite Math **three hours**

An introduction to finite math with applications of quantitative techniques in the social and management sciences. Topics covered are logic, probability, linear relations, and elementary linear programming.

114. Finite Math **three hours**

Topics include non-linear relations, applied matrix algebra, sequences, and introductory applied calculus. PR: Math 113.

115. Intermediate Mathematics II **four hours**
An integrated course of the material traditional offered in College Algebra and Trigonometry, and related topics. For students who have not completed an equivalent course in high school. PR: 112 or equivalent.

116. Calculus I **four hours**
The simpler techniques of differentiation and integration for the elementary functions. Step functions and their integral, the exact area under a monotonic curve, the definite integral. Limit of a function, slope of a curve, tangents, instantaneous rates. Continuity algebra of limits, existence of limits, continuous functions. Derived functions, $D(u+v)$, Dcu, Duv, Du^n, differentiation of polynomials. Interpretation and applications of derivatives. Mean value theorem. Taylor's theorem, higher order derivatives, cut-off Taylor's series as approximations, convexity, constant acceleration, maxima and minima. Differentiation of rational functions, maxima and minima with side conditions. The antiderivative, differential equation $DF(x) = f(x)$, antiderivative formulas, fundamental theorem of calculus. Integration by parts, algebraic properties of integrals, applications, area, mean value of a function, falling bodies, work, volumes, moments. Antiderivatives of negative powers, application, Theory of logarithms and general powers. Exponential functions. Tangent and normal, orthogonal curves, angle between two curves, circle and parabola. Arc length, polar coordinates. Derivatives and integrals of trigonometric functions. Periodic motion, simple harmonic motion. Inverse trigonometric functions. Numberical methods: trapezoidal rule, Simpson's rule, Newton's method. PR: 115 or equivalent.

200. Mathematical Logic **three hours**
Sentential and general theory of inference, theory of proof and definition, elementary intuitive set theory. PR: Math 116 or consent.

201. Mathematical Logic **three hours**
A continuation of Math 200. PR: Math 200.

205. Fundamental Concepts of Mathematics **three hours**
An introductory, survey, course in mathematics including elementary logic, set language, a discussion of various number systems, numeration systems, introductory number theory, probability, and other related topics. This course will be offered each semester. Credit cannot be earned in both Math 205 and Math 110.

206. Introduction to the Theory of Numbers **three hours**
Prime Numbers; the unique factorization theorem; congruences; Diophantine equations; primitive roots; the quadratic reciprocity theorem. PR: Math 116 or consent.

210. Mathematics for Elementary Teachers II **three hours**
This course is intended to follow Math 110. Topics covered in the course include an introduction to logic, numeration systems including bases other than ten, properties of real numbers finite mathematics, solution of equations and inequalities. Credit for the course does not count for general requirement in science and mathematics, except for elementary education majors. PR: Math 110.

212 Math Sets, Relations and Functions **three hours**
Topics to be studied are those related to sets, relations and functions which are common to most upper division mathematics courses. This course is designed and highly recommended for students majoring or minoring in mathematics but maybe used by other students to satisfy their general education requirement. The course will be offered during the winter semester of each year.

214. History of Mathematics **three hours**
A historical development of mathematical ideas beginning with the geometry and computational methods of antiquity and continuing through the calculus. Pre-requisite: Math 115 or equivalent.

315. Calculus II **four hours**
A continuation of Math 116. PR: 116.

316. Calculus III **four hours**
A continuation of Math 315. PR: 315.

335. Probability and Statistics **three hours**
Sample spaces, events as subsets, probability axioms, finite sample spaces and equiprobable measure as special case, binomial coefficients and counting techniques applied to probability problems, conditional probability, independent events, Bayes' formula. Random variable, probability functions, density and distribution functions, special distributions, independent random variables. Poisson and normal approximation to the bionomial, some statistical applications. Estimation and sampling, point and interval estimates, hypothesis-testing, power of a test, regression. PR: Math 315 or consent.

336. Probability and Statistics **three hours**
Random variables and distributions, sequences of random variables, Markov chains, stochastic process. PR: Math 335.

342. Numerical Analysis **three hours**
Solution of equations. Functional iteration of equations, analysis of special methods such as the methods of false position and of Newton; iteration for systems of equations. Reduction to first order systems. Gaussian elimination and some iterative methods for inversion. PR: Math 315 and EDP 103 or consent.

361. Abstract Algebra **three hours**
Sets, relations, functions, operation, etc. Algebraic systems: integers, rationals, matrices, etc. Isomorphism and examples. Equivalence classes. Groups. Subgroups, cyclic groups, basic theorems Lagrange's theorem. Homomorphism, normal subgroup, quotient group. The isomorphism theorems. Rings, integers, matrices, polynomials, integral domains, fields, quotient field. Homomorphism, ideals, residue class rings. Unique factorization domains. Euclidean domains, integers, polynomials over a field. Division algorithm, highest common factor, unique factorization in Euclidean domain. PR: Math 116 or consent.

362. Linear Algebra **three hours**
Vector spaces abstractly defined. Linear dependence and independence. Bases and subspaces. Dimension of linear space. Linear mappings, kernel and image of a map. Rank of a map. Linear maps as a vector space. Composition of mappings and multiplication of matrices. Relation between linear mappings and systems of linear equations. Row reduced echelon matris, invertible matrices, calculation of inverse. Linear inequalities and half spaces. RP: Math 316 or consent.

372. Modern Geometry **three hours**
The idea of convexity; separation of planes by liens, and of space by planes. The treatment of betweeness. Distance functions and angular measurement functions, and the postulates governing them. Metric definitions of congruence-relations, for segments, angles, and triangles. The parallel postulate. PR: Math 116 or consent.

373. Projective Geometry **three hours**
Extended Euclidean plane, elements of perspective, linear transformations in II^2, the axiomatic foundation, the complete four-point and complete four-line, conics, introduction of coordinates. PR: Consent.

375. Topology **three hours**
A study of sets, relations, functions, cardinal numbers and orderings. Topological spaces, including continuity, convergence, separation, compactness and connectedness. PR: Math 315.

391. Introduction to Analysis **three hours**
Real numbers, topology of the reals, infinite series, continuous functions, sequences and series of functions, differentiation, integration, power series. PR: Math 316.

393. Introduction to Foundations of Mathematics **three hours**
Continuation of 391. PR: Consent.

400. Seminar **one-three hours**
PR: Consent.

401. Differential Equations **three hours**
First-order and simple higher-order ordinary differential equations and their applications, linear differential equations with constant coefficients and their application, simultaneous differential equations and their applications, the numbeical solution of differential equations, solution of differential equations by use of series. PR: Math 316.

411. Advanced Calculus **three hours**
Sets, relations and functions, composite and inverse functions, countable sets, ordered fields, sequences, operations with sequences nested intervals, cauchy sequences, open and closed sets, limits and continuity, differentiation, integration. PR: Math 316 and consent.

413. Introduction to Complex Variables **three hours**
The algebra and geometry of complex numbers. Definitions and properties of elementary functions, e, sin x, log z. Anatytic functions. Limits, derivatives, Cauchy-Riemann equations. Integration. Integrals, functions defined by integrals. Maximum modulus, Liouville's theorem, fundamental theorem of algebra. Series. Taylor and Laurent series. Uniform convergence, term-by-term differentiation, uniform convergence in general. Domain of convergence and classification of singularities. The residue theorem. PR: Math 315.

431. Methods and Materials in Teaching Mathematics **two hours**

MUSIC

(Division of Fine Arts)

The Music Department offers a minor in the Bachelor of Arts Degree in Music and a Comprehensive (1-12) Music Major and Music Subject Specialization, Vocal, Grades 1-9 or 7-9 under the Bachelor of Arts in Education Degree. The degree programs are organized to provide a thorough background for a music teaching or a professional career. Major applied areas are offered in vocal, instrumental (strings, woodwinds, brass and percussion), piano and organ.

The department provides excellent musical instruction for its students through a highly qualified professional staff of performing and teaching professors, a constantly improving and varied curriculum, and a series of sequential musical experiences and studies in all music degree programs. The department believes in exposing music students to many new and innovative educational and musical ideas as well as emphasizing the musical heritage of the past. Departmental organizations such as band, orchestra, choir, ensembles, stage band and soloists participate regularly in productions, concerts, and activities of the college and have toured in West Virginia, the United States, and Europe.

Opportunities are provided for music students to attend numerous recitals, productions and other musical events on and off campus. Several professional and fraternal organizations are sponsored by the department, including a student chapter of MENC, Sigma Alpha Iota professional sorority for women music students, and a professional fraternity for men music students.

In 1966, the music department moved in to the new Fine Arts Building. It is well equipped with musical instruments and materials and its facilities include a piano classroom, theory room, music education room, listening library, instrumental and choral rehearsal rooms, 18 practice rooms, nine studios and Wallman Concert Hall.

Specific Requirements

Minor 27 sem. hrs.

Required Courses:				
Theory	8			
109-110	Theory, Comprehensive	8		
Appreciation			3	
206	Music Appreciation for Majors	3		
Conductiong			5	
245	Fundamentals of Conducting	2		
429 or 430	Instrumental or Choral Methods and Advanced Conducting	3		
*Applied Music			8	
107	Piano (Min. 3) (Piano Proficiency)			
141	Voice (Min. 1)			
211-217	Orchestral Instrument Classes (Min. 3)			
**Participation				3

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*See FSC Bulletin Music Supplement for requirements for recitals, concert attendance, applied levels, piano proficiency, and freshman level assignments, etc.

**A music minor in addition to the three hours participation credit, must be enrolled in a major performance group (band, chorus, orchestra) during each semester of college attendance.

Curricula for Teaching Fields and Specializations
Music

Courses marked with an asterisk must be completed before a student is admitted to the Initial Performance Practicum. See FSC Bulletin Music Supplement for requirements for recitals, concert attendance, applied levels, piano proficiency, and freshman level assignments, etc.

Curriculum for Comprehensive Teaching Field Grades 1-12

Required Courses				59 Sem. Hrs.
Music Theory:				18
109, 110	First Year Theory, Comprehensive*		8	
209, 210	Second Year Theory, Comprehensive*		8	
309	Orchestration		2	
Music History and Appreciation:				9
206	Music Appreciation for Majors*		3	
313, 314	History*		6	
Conducting				2
245	Fundamentals of Conducting* Note: An additional 2 hours of advanced instrumental and choral conducting is included in Music 429, Instrumental Methods and Music 430, Choral Methods		2	
Participation:				
Band, Chorus or Orchestra*****				4
Applied Music: (Vocal, Instrumental and Piano	or Organ major). Note: See FSC Bulletin Music Supplement.			18
Applied Major:			7	
141	I-VII Voice* or			
177-203	I-VII Instrumental* (Brass, Woodwind Percussion or Strings) or			
107	I-VII Piano* or			
103	I-VII Organ*			
Instrumental Classes:			4	
Senior Recital: 440 Sr. Recital (See FSC Bulletin Music Supplement)			1	
211	String Class* (Recommended that all majors take 211 I and II)	1		
213	Brass Class*	1		
215	Woodwind Class*	1		
217	Percussion Class*	1		
170	Lab. Band-Orchestra	NC		
Additional Requirements:			6	
For Vocal Major:		(6)		
Elective: (On advice of Instructor)				
Instrumental Class II, or				
139 Voice Class, or				
320 Techniques of Keyboard Accompanying****		1		
Piano:***				
105 I-II Piano Class*		2		
107 I-II-III Piano (Piano Proficiency)		3		
For Instrumental Major:			(6)	
Instrumental Class II (On advice of instructor) Note: Brass Majors must take 215 I and II.		1		
Woodwind Majors must take 213 I and II				
Percussion Majors are excused from				

217 if passed in rhythmic reading, but must take 213, 215 I and II.					
Piano:***					
105	I-II Piano Class*	2			
107	I-II Piano	2			
Voice:					
139	Vocie Class	1			
For the Organ and Piano Major:			(6)		
Elective (On advice of Instructor)					
Instrumental Class II or					
103	Organ (For Piano Major) or				
320	Techniques of Piano Accompanying****	1			
Instrumental or Vocal Applied Minor:		4			
141 or 177-203, I-IV					
Voice:					
139	Voice Class	1			
Music Education:					8
429	Instrumental Methods and Conducting*			3	
430	Choral Methods and Conducting*			3	
431	Methods and Materials in Teaching Music 1-12			2	
Music Subject Specialization, Vocal, Grades 1-9, 7-9					
Required Courses				31 Sem. Hrs.	
General Education Requirements				9	
206	Music Appreciation		3		
231	Elementary Music		3		
232	Elementary Music II*		3		
Theory:				8	
109	Theory, Comprehensive*		4		
110	Theory, Comprehensive		4		
Applied	Music:			8	
*139	Voice Class		1		
141	I-III Voice		3		
105	I, II Piano Class*		2		
107	I, II Piano***		2		
Participation:				4	
Chorus and small ensembles*****					
Conducting:				2	
245	Fundamentals of Conducting*		2		
Applied Music Requirements: See FSC Bulletin Supplement "Applied Music Requirements."					

*Courses marked with an asterisk must be completed prior to admission to the Initial Performance Practicum.

**Laboratory Band-Orchestra is held once each week for non-credit (NC). All persons taking Music 211, 212, 213, 215, and 217 are required to participate.

***Piano is required of all music students. At the completion of the required number of hours (4), each student must pass the piano proficiency examination. If failed, the student must continue to take piano until the piano proficiency examination is passed. This requirement is necessary for a degree in music. A student who so desires, may take the piano examination after completing one or more hours of piano. If successful, he is excused from the remaining hours which must be added to music electives in an applied area.

****Music 320, Keyboard Accompanying, may be substituted for one hour of applied piano.

*****A first field or minor in addition to the four (4) hours participation credit, must be enrolled in a major performance group (band, choir, orchestra) during each semester of college attendance. Participation enrollment should be in line with the applied major.

Minor

27 sem. hrs.

Freshman

Semester 1		Semester 2	
Music 109 Theory	4	Music 110 Theory	4
Music 107-I Piano	1	Music 206 App. for Majors	3
Music 169-173 172-167 (Band, Chorus, Orchestra)	1	Music 107-II Piano	1
Music 141-I Voice	1	Music 169, 173, 167, 172) (Band, Chorus, Orchestra)	1
	7		9

Sophomore

Semester 3		Semester 4	
Music 107-III Piano	1	Music 245 Fund. of Conducting	2
Music 211 String Class or 213 Brass Class or 215 Woodwind Class or 217 Percussion Class	1	Music 107-IV Piano (Piano Proficiency)	1
Music 169, 167, 173, 172 (Band, Chorus, Orchestra)	1	Music 213, 215, or 217	1
		Music 169, 167, 173, 172 (Band, Chorus, Orchestra)	1
	3		5

Junior

Semester 5	
Music 429 or 430 Instrumental or Choral Methods	3
Music 213, 215, 217	1
Music 169, 167, 173, 172 (Band, Chorus, Orchestra)	1
	5

Note: Continued participation in band, chorus or orchestra until graduation.

Specialization 1-9, 7-9

Semester 1		Semester 2	
Music 109 Theory	4	Music 110 Theory	4
Music 173-I Chorus	1	Music 173-167 Chorus	1
Music 105-I Piano Class	1	Music 105-II Piano Class	1
Music 139 Voice Class	1	Music 141-I Voice	1
		Music 206 App. for Majors	3
	7		10

Continued

Semester 3	
Music 231 El. Music I	3
Music 141-II Voice	1
Music 107-I Piano	1
Music 173-167 Chorus	1
	6

Semester 4	
Music 232 El. Music II	3
Music 141-III Voice	1
Music 107-II Piano (Piano Proficiency)	1
Music 173-167 Chorus	1
Music 245 Fund. of Cond.	2
	8

Note: Continuous enrollment in Music 173 or 167 until Initial Performance Practicum.

Instrumental

Freshman

Semester 1	
Music 109 Theory	4
Music 177-203-I Applied	1
Music 105-I Piano Class	1
Music 169-I Band or 172-I Orchestra	1
Music 139 Voice Class or Music 217 Percussion	1
	8
General Studies:	
English 104	3
Science	3
History 111	3
HPER	1
	17

Semester 2	
Music 110 Theory	4
Music 177-203-II Applied	1
Music 105-II Piano Class	1
Music 206 Music Appre. Majors	3
Music 169 or 172-II Band or Orchestra	1
Music 139-I Voice Class or Music 217 Percussion	1
	11
Music 170 Lab Band & Orchestra	NC
General Studies:	
English 108	3
Science	2
	17

Sophomore

Semester 3	
Music 209 Theory	4
Music 177-203-III Applied	1
Music 107-I Piano	1
Music 169 or 172-III Band or Orchestra	1
Music 211-I String Class	1
Music 173-I Chorus	1
	9
General Studies:	
Science 104 Physics	2
Speech 210	3
Education 200	2
	16

Semester 4	
Music 210 Theory	4
Music 177-203-IV Applied	1
Music 107-II Piano (Piano Proficiency)	1
Music 245 Fund. of Conducting	2
Music 169 or 172-IV Band or Orch.	1
Music 211-II String Class	1
Music 170 Lab Band & Orch.	NC
	10
General Studies:	
History 112	3
English 250	3
Education 250	2
	18

Continued

Junior

Semester 5

Music 309 Orchestration	2
Music 177-203-V Applied	1-2
Music 313 History Methods	3
Music 429 Inst. Meth. & Adv. Cond.	3
Music 169 or 172-IV Band or Orch	1
Music 215-I Woodwind Class	1
	—
	11-12
General Studies:	
Education 302	3
Psychology 101	3
	—
	17-18

Semester 6

Music 177-2030VI Applied	1-2
Music 314 History	3
Music 430 Choral Methods & Adv. Conducting	3
Music 169 or 172-VI Band or Orch.	1
Music 213-I Brass Class	1
Music 170 Lab Band & Orch.	NC
	—
	9-10
General Studies:	
Education 303	3
Sociology 110	3
	—
	15-16

Senior

Semester 7

Music 177-204-VII Applied	1-2
Music 440 Senior Recital	1
Music 431 Material & Meth.	2
Music 169 Band or Music 173-II Chorus	1
Music 215 or 213-II Woodwind Class or Brass Class	1
	—
	6-7
General Studies:	
English 260	3
Political Science 103	3
	—
	12-13
Music Electives:	
Music 310, 311, or 312	
Music 172	4-5
Music 247-249 or 175	
	—
	16-18

Semester 8

Note: Initial Performance Practicum may be taken at either the first or second semester

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Note:

1. Instrumental majors must pass the Piano Proficiency.
2. Music 139 and Music 217 must be taken the Freshman year. All other instrumental classes may be taken any semester.
3. Instrumental majors must take major Applied Music 177-203, each semester enrolled.
4. Percussion majors must take Music 213 I and II Brass Class, and Music 215 I and II Woodwind Class, and are excused from Music 217, Percussion Class, if passed in rhythmic reading.

Piano-Organ

Semester 1	
Music 109 Theory	4
Music 107-I Piano	1
Music 169-173-172 (Band, Chorus, Orchestra)	1-2
Applied Minor I (Vocal or Instrumental)	1
Music 217 Percussion Class or Music 139 Voice Class	1
	8-9
General Studies:	
English 104	3
Science	2
HPER	1
History 111	3
	17-18

Semester 2	
Music 110 Theory	4
Music 107-II Piano	1
Applied Minor II (Voice or Instrumental)	1
Music 206 Music App. for Majors	3
Music 169, 173, 172-II (Band, Chorus Orchestra)	1
Music 217 Percussion Class or Music 139 Voice Class	1
Music 170 Lab Band & Orchestra	NC
	11
General Studies:	
English 108	3
Science	2
	16

Sophomore

Semester 3	
Music 209 Theory	4
Music 107-III Piano	1
Applied Minor III (Voc. or Instrumental)	1
Music 159-173-172-III (Band, Chorus or Orchestra)	1
Music 211-I String Class	1
	8
General Studies:	
Science 104 Physics	2
Speech 210	3
Education 200	2
	15

Semester 4	
Music 210 Theory	4
Music 107-NV Piano	1
Applied Minor IV (Voc. or Instrumental)	1
Music 245 (Fund. of Con.)	2
Music 169-173-172-IV (Band, Chorus, Orchestra)	1
Music 211-II String Class	1
Music 170 Lab Band & Orchestra	NC
	10
General Studies:	
History 112	3
English 250	3
Education 200	2
	18

Junior

Semester 5	
Music 309 Orchestration	2
Music 107-V Piano	1-2
Music 313 History	3
Music 429 Instr. Methods & Adv. Conducting	3
Music 173-171-169-V (Band, Chorus or Orchestra)	1
Music 213 Brass Class	1
	11-12
General Studies:	
Education 302	3
Psychology 101	3
	17-18

Semester 6	
Music 107-VI Piano	1-2
Music 314 History	3
Music 430 Choral Meth. & Adv. Conducting	3
Music 171-173-169-VI (Band, Chorus or Orchestra)	1
Music 215-I Woodwind	1
Music 170 Lab Band & Orchestra	NC
	9-10
General Studies:	
Education 303	3
Science 110	3
	15-16

Continued

Senior

Semester 7		Semester 8	
Music 107-VII Piano	1-2	Note:Initial Performance Practicum may be taken either the first or second semester.	
Music 440 Senior Rec.	1		
Music 431 Music Mat. & Methods	2		
Music 169-171-173-VII	1		
Music 215-II, 213-II or 103-I Organ	1		
	6-7		
General Studies:			
English 260	3		
Political Science 103	3		
	12-13		
Music Electives:			
Music 310, 311, or 312			
Music 247, 249, 275 or 277	3-4		
	15-17		15

Note:
1. Piano majors must have a four semester minor in vocal, instrumental or organ.
2. Music 139-Voice Class and Music 217-Percussion Class must be taken during the freshman year. All other instrumental classes may be taken any semester.
3. Piano majors must take major applied music 107 each semester enrolled.

Comprehensive Teaching Field
Grades 1-12, 59 hrs.
Vocal

Semester 1		Semester 2	
Music 109 Theory	4	Music 110 Theory	4
Music 141-I Voice	1	Music 141-II Voice	1
Music 105-I or 107-I Piano	1	Music 105-II or 107-II Piano	1
Music 173 or 167-I Chorus	1-2	Music 206 Music App. for Majors	3
Music 217 Percussion Class		Music 173 or 167-II Chorus	1
		Music 217 Percussion Class	
	7-8	Music 170 Lab Band & Orchestra	NC
General Studies:			
English 104	3		10
Science	2	General Studies:	
HPER	1	English 108	3
History 111	3	Science	2
	17-18		16

Continued

Sophomore

Semester 3

Music 209 Theory	4
Music 141-III Voice	1
Music 107 Piano	1
Music 173-167 Chorus	1
Music 211-I String Class	1
Music 217 Brass Class	1
	9
General Studies:	
Science 104 Physics	2
Speech 210	3
Education 200	2
	16

Semester 4

Music 210 Theory	4
Music 141-IV Voice	1
Music 107-II Piano	1
Music 245 Fund. of Conducting	2
Music 173-167 Chorus	1
Music 211-II String Class	1
Music 170 Lab Band & Orchestra	NC
	10
General Studies:	
History 112	3
English 250	3
Education 250	2
	18

Junior

Semester 5

Music 309 Orchestration	2
Music 313 History	3
Music 141-V Voice	1-2
Music 429 Inst. Meth. & Adv. Conducting	3
Music 173-167-V Chorus	1
Music 107-III Piano	1
	11-12
General Studies:	
Education 302	3
Psy. 101	3
	17-18

Semester 6

Music 141-VI Voice	1-2
Music 314 History	3
Music 430 Choral Meth. & Adv. Conducting	3
Music 173-167-VI Chorus	1
Music 215-I Woodwind Class	1
Music 170 Lab Band & Orchestra	NC
	9-10
General Studies:	
Education 313	3
Soc. 110	3
	15-16

Senior

Semester 7

Music 141-VIII Voice	1-2
Music 440 Senior Recital	1
Music 431 Music Materials & Methods	2
Music 173-167 VII Chorus	1
Music 213 Brass Class	1
	6-7
General Studies:	
English 260	3
Pol. Sci. 103	3
	12-13
Music Electives:	
Music 310, 311, 312	
Music 277	5-6
	17-19

Semester 8

Note: Initial Performance Practicum may be taken either the first or second semester.

Note:
1. Vocal majors must have 5 semesters of piano and must pass Piano Proficiency.
2. Music 217 must be taken the freshman year. All other instrumental classes may be taken any semester.
3. Voice majors must take major applied Music 141, each semester enrolled.

Courses of Instruction
Music

*Note: All applied courses, Music 103, 107, 141 and 177-203, I-VIII:

a. Open to students with sufficient musical background to benefit from individual instruction in techniques of playing band and orchestral instruments. Acceptance of the student will be the prerogative of the instructor. See FSC Bulletin Music Supplement for applied requirements, recitals and applied levels.

b. One hour credit applied music course requires one-half hour lesson per week plus daily practice of one hour.

c. Two hour credit applied music courses require two one-half hour lessons per week or one hour lesson per week plus two hours daily practice.

d. Students desiring to take 2 hours for applied lessons must have the permission of their instructor. This permission is usually given only to upperclassmen.

***103. Organ I-VIII** **one-two hours**
The program of study will be fitted to the individual needs of the student. Acceptance of the student will be the prerogative of the instructor.

105. Piano Class I-II **one hour**
This course is designed for all students interested in beginning piano. This will be conducted as a class with each member being offered opportunity for participation.

***107. Piano I-VIII** **one-two hours**
See description under Music 103.

109E. Beginning Theory (on demand) **two hours**
This course is designed for beginning music students who need additional background in theory.

109. Theory, Comprehensive **four hours**
This course is organized in five interacting streams of study to develop the skills necessary for the perception and understanding of music. These streams of study are comprised of: Formal and harmonic analysis, composition, Ear Training, Keyboard Harmony and Singing. This study surveys the compositional techniques of the 18th and 19th centuries. A weekly lab of 5 minutes is required.

110. Theory, Comprehensive **four hours**
A study designed to reinforce and expand concepts acquired in Theory 109, with emphasis in compositional study involving modulation and musical perception with and without score. Five minute lab. PR: 109.

139. Voice Class **one hour**
Course consists of a study of the fundamentals of voice prodcution: breathing, resonance, articulation and style.

***141. Voice I-VIII** **one-two hours**
Open to students who have sufficient musical background and vocal quality to merit individual instruction. The principles of proper vocal production are stressed with later emphasis upon solo repertoire in English, Italian, German and French.

167. Collegiates I-VIII one hour
A select touring choir. PR: Audition.

169. Band I-VIII one hour
Open to all students who can play an instrument needed to keep a balanced organization. The program of procedure is designed to present study of band literature and administration through participation. Includes the marching band, concert band and wind symphony. PR: Audition.

170. Laboratory, Band and Orchestra no credit
Required of students who can play an instrument needed to keep a balanced organization. This course provides review experiences in conducting and playing instruments at the beginning and intermediate levels.

172. College-Community Symphony Orchestra, I-VIII one hour
Open to all students and members of the community who can play an orchestral instrument needed to keep a balanced organization. The course is designed to present the study and performance of orchestral literature appropriate to the playing ability of its members. Audition or at the discretion of the director.

173 Symphonic Choir I-VIII one hour
Open to all students who can sing a part. This course is designed to present a study of choral literature, and administration through participation. PR: tryout.

174. Varsity Men's Glee Club one hour
A performance group open to all men of the college community. Literature selected from various styles, including pop, show tunes, folk and religious. Performances for college and community functions. Non-audition. (Not to be used for major performance participation credit in any music degree program.)

Individual Instruction in Band and Orchestral Instruments.

***177.**	**Percussion I-VIII**	one-two hours
179.	**Saxophone I-VIII**	one-two hours
***181.**	**Flute I-VIII**	one-two hours
***183.**	**Clarinet I-VIII**	one-two hours
***185.**	**Oboe I—VIII**	one-two hours
***187.**	**Bassoon I-VIII**	one-two hours
***189.**	**Trumpet or Cornet I-VIII**	one-two hours
***191.**	**Bariton Horn I-VIII**	one-two hours
***193.**	**French Horn I-VIII**	one-two hours
***195.**	**Trombone I-VIII**	one-two hours
***197.**	**Tuba I-VIII**	one-two hours
***200.**	**Violin I-VIII**	one-two hours
***201.**	**Viola I-VIII**	one-two hours
***202.**	**Cello I-VIII**	one-two hours

205. Music Appreciation **two hours**
A general music course in appreciation. Music composers of the classical, romantic, and modern periods are discussed, and compositions of these composers are heard through the medium of recordings.

206. Music Appreciation for Majors **three hours**
The history and literature of music, with emphasis placed on listening to recordings of great music and the study of musical style and form of the leading composers of the Renaissance, Baroque, Vienna Classic, Romantic, and Modern periods, for the purpose of developing greater depth in the discrimination and appreciation of music. Recommended for students enrolled in a music teaching field, subject specialization, or major. This may be substituted for Music 205. Not open to students with credit for Music 205.

209. Theory, Comprehensive **four hours**
Continuation of Music 110 covering theoretical principles of the Baroque and Classical Periods. Emphasis on contrapuntal forms and compositions of large formal structures. Five minute lab each week. PR: 110.

210. Theory, Comprehensive **four hours**
Continuation of Music 209 developing the skills necessary for the perception and understanding of music. Features theoretical principles of the Romantic and twentieth centuries. Five minute lab each week. PR: 209.

211. String Class I, II **one hour**
This course is open to all students with sufficient background in music. A working knowledge of string instruments is attained through class instruction.

213. Brass Class I, II **one hour**
This course is open to all students with sufficient background in music. A working knowledge of brass instruments is attained through class instruction.

215. Woodwind Class I, II **one hour**
This course is open to all students with sufficient background in music. A working knowledge of woodwind instruments is attained through class instruction.

217. Percussion Class I, II **one hour**
Open to all students with sufficient background in music. A working knowledge of percussion instruments is attained through class instruction.

231. Elementary Music I (K-3) **three hours**
This course gives the student a background in music theory, terminology of music, rhythm, music reading, chord construction and use of the keyboard and classroom instruments needed by the classroom teacher. Methods activities and approaches of Orff, Kodaly, Manhattan Project, and others are emphasized for K-3. Two lecture hours and one laboratory hour per week. Required of all elementary teachers.

232. Elementary Music II (4-8) **three hours**
This course is a continuation of 231 and includes methods and procedures for carrying out the music program in the elementary grades four through eight. PR: Music 231.

245. Fundamentals of Conducting **two hours**
A course designed to teach and develop the basic skills of conducting. PR: 109.

247. Stage Band I-VIII **one hour**
Open to advanced instrumental students. PR: Audition.

249. Advanced Woodwind Instrumental Ensemble I-VIII **one hour**
Open to advanced woodwind students. Includes various woodwind ensembles. PR: Audition.

275. Advanced Brass Instrumental Ensemble I-VIII **one hour**
Open to advanced instrumental students. Designed to give students an opportunity to participate in small ensembles. Groups meet on a regular weekly rehearsal schedule under faculty direction. PR: audition.

277. Advanced Vocal Ensemble I-VIII (Madrigal Singers) **one hour**
Open to advanced vocal students. Designed to give students experience in small ensemble participation. Groups meet on a regular rehearsal schedule under faculty direction. PR: audition.

309. Orchestration **two hours**
Basic instrumentation and arranging for band and orchestra. PR: 210.

310. Counterpoint (on demand) **two hours**
A study of the style and technique involved in the writing of 16th century polyphonic music. PR: 210.

311. Form and Analysis (on demand) **two hours**
A study of form and the analysis of music as found in the literature from the 17th to the 20th century. PR: 209.

312. Composition (on demand) **two hours**
This course is designed to teach, through the study of various types of music, a basic and accepted approach to creative composition. PR: 209.

313. History **three hours**
This course traces music from the early Greek through the Baroque periods, with emphasis on recognition of styles and composers. PR: 209.

314. History **three hours**
A continuation of Music 313 covering the Classical, Romantic, and Modern periods. PR: Music 313.

320. Techniques of Keyboard Accompanying **one hour**
A course designed to acquaint advanced students of piano and organ with the techniques involved in playing accompaniments for performing groups and soloists. Regularly scheduled laboratory experiences in playing accompaniments for vocal and instrumental soloists and ensembles will be provided. This course may be substituted for applied piano. PR: Permission of instructor. Given on demand.

376. Civilization—A Personal View **three hours**
An interdisciplinary course using Kenneth Clark's films depicting the cultural life of western man.

429. Instrumental Methods and Conducting **three hours**
This course includes advanced and practical application of instrumental conducting techniques, methods, administration and materials used in teaching instrumental music in the secondary schools. PR: 209 and 245.

430. Choral Methods and Conducting **three hours**
This course includes advanced and practical application of choral conducting techniques, methods, administration, and materials used in teaching choral music in the secondary schools. PR: 209 and 245.

431. Methods and Materials in Teaching Music, K-12 **two hours**
This course deals with techniques, methods and materials used in teaching and administering elementary and secondary general music classes. Methods, activities and approaches of Orff, Kodaly, Manhattan Project, and others are included. To be taken during the Initial Performance Practicum.

432. Choral Workshop (on demand) **two hours**
This workshop course to be offered to upgrade choral instructor's teaching techniques and administration. The course will include experiences in conducting choral groups, interpretation, and participating in choral rehearsals and performances. The study of problems related to choral teaching and administration will be included.

433. Instrumental Workshop (on demand) **two hours**
This workshop course to be offered to upgrade instrumental teaching techniques and administration of instructors. The course will include experiences in conducting instrumental groups, interpretation, participating in instrumental rehearsals and performances, and the study of problems related to instrumental teaching and administration.

434. Composition Workshop (on demand) **two hours**
This course is designed to study the composition of choral and instrumental works. Experiences of hearing works performed by live groups will be provided.

435. Music Production Workshop **one-three hours**
A laboratory experience in music theater. Course will culminate in a public presentation of opera or musical comedy. PR: Consent of instructor.

440. Senior Recital (See FSC Music Bulletin Supplement) **one hour**
All music majors are required to present a senior recital or its equivalent before the faculty jury or public.

PHILOSOPHY

(Division of Social Science)

Philosophy is neither dogma, nor advice for daily living, nor a body of comforting truisms and witty generalizations. Neither is philosophy an attempt to simplify reality, to transform it, or to explain it away. Rather, philosophy examines the premises on which systematic thought may rest; it explores the types of thought that may be produced in such areas of concern as ethics, politics, aesthetics, metaphysics, and epistemology; and it evaluates the advantages and penalties inherent in various modes and systems of thought. Thus philosophy encourages the thinking person to think well; to develop his self-conception and his world-view, his values, expectations, commitments and loyalties in a rational and realistic manner.

Minor, B.A. and B.S. degree 15 sem. hrs.

Required Courses		
200	Introduction to Philosophy	3
250	The Western Philosophical Tradition	3
400	Seminar	3
Electives		6
Any other courses in Philosophy		

Model Schedule for the Philosophy Minor

Freshman year

First semester: philosophical study not recommended for most students.

Second semester: Phil. 200, "Introduction to Philosophy." Required course.

Sophomore year

First semester: "Introduction"—if not taken earlier. Phil. 250, "The Western Philosophical Tradition." Required course.

Second Semester: Philosophy 250, if not taken earlier.

Junior year

First semester: Phil. 325, "Ethics."

Second semester: Phil. 350, "Comparative Religion"; *or* Phil. 375, "Philosophy of History."

Senior year

First semester: Phil. 300, "Introduction to Logic." *or* either Phil. 350 or Phil. 375, if not taken earlier.

Second semester: Phil. 400, "Seminar." Required course.

It is recommended that the introductory courses be taken in order: first Phil. 200, then Phil. 250.

Phil. 400, "Seminar" should be scheduled just prior to the student's final semester.

Courses of Instruction
Philosophy

200. Introduction to Philosophy **three hours**

A survey of the principal problems arising out of man's attempts to organize his experience and direct his existence.

250. The Western Philosophical Tradition **three hours**
A survey of the historical development of philosophical thought from ancient Greece to the twentieth century.

300. Introduction to Logic and Philosophical Analysis **three hours**
Problems and techniques of systematic thinking about philosophical ideas. Subjects include: epistemological theory, basic techniques of inductive and deductive reasoning, the nature and use of definitions, the identification of fallacies, and the effective use of factual, hypothetical, and theoretical statements.

325. Ethics **three hours**
A study and evaluation of classical and contemporary theories of what constitutes right and wrong, good and bad, in human conduct, with emphasis on the implications of these theories for resolving contemporary moral problems.

350. Comparative Religion **three hours**
Description and analysis of the philosophical systems underlying the major religions of the world.

375. Philosophy of History **three hours**
(Credit in either philosophy or European history.) A survey of the philosophical systems, both speculative and analytical, that have been advanced to evaluate humanity's historical experience.

400. Seminar **three hours**
Research and reading for advanced students.

PHYSICS— PHYSICAL SCIENCE

(Division of Science)

The Department of Physics—Physical Science offers a minor field for students obtaining a Bachelor of Science or a Bachelor of Arts degree. Instruction is offered for students entering professions where a fundamental knowledge of physics is required.

An A.B. in Education degree with a specialization in secondary-school physics is offered with emphasis on promoting inquiry and further study as well as competency in teaching.

BACHELOR OF SCIENCE OR BACHELOR OF ARTS DEGREE

Minor 31 hours

Required Courses
- Physics 101, 102, and 310
- Physics 320, 321, or 420, 421
- Physics 340
- Mathematics 112, 115, and 116

Curricula for Teaching Fields and Specializations in Physics and General Science

PHYSICS, General Science Comprehensive, grades 7-12 **45 Sem. Hrs.**

Chemistry	*101	General Chemistry	4
Chemistry	*102	General Chemistry	4
Physics	*101	Introduction to Physics	4
Physics	*102	Introduction to Physics	4
Physics	201	Demonstrations in Physics	2
Physics	*310	Electricity and Electronics	4
Biology	101	Introduction to Biology	3
Biology	102	Introduction to Biology	3
Geology	*101	General Geology	3
Physics	*202	Astronomy	3
Electives		Minimum of 6 hours in Physics Chemistry 0-3 Hrs. Physics 6-9 Hrs.	9
Science	431	Methods and Materials in Teaching Science (offered only second semester of each year)	2

PHYSICS, Single Teaching Field, grades 7-12 **31 Sem. Hrs.**

Same as required in Physics above but omit Geology 101, Physics 202, Biology 101, 102.

GENERAL SCIENCE, Subject Specialization, grades 1-9 or 7-9 **30 Sem. Hrs.**

Biology	101, 102	Introduction to Biology	6
*Chemistry	101, 102	General Chemistry	8
*Physics	101, 102	Introduction to Physics	8
*Geology	101	General Geology	3
*Physics	201	Demonstrations in Physics	2
*Physics	202	Astronomy	3

*Courses marked with an asterisk must be completed prior to admission to the Initial Performance Practicum.

Minor-Physics

Semester 1		Semester 2	
Math 112	3 Hrs.	Math 115	4 Hrs.
Semester 3		**Semester 4**	
Physics 101	4 Hrs.	Physics 102	4 Hrs.
Math 116	4 Hrs.		
Semester 5		**Semester 6**	
Physics 320/420	3 Hrs.	Physics 321/421	3 Hrs.
		Physics 310	4 Hrs.
Semester 7			
Physics 340	2 Hrs.		

Bachelor of Arts in Education
Physics
Comprehensive and Single Teaching Field**, 7-12

Semester 1		Semester 2	
Chemistry 101/105	4-5	Chemistry 102/106	4-5
Biology 101	3	Biology 102	3
English 104	3	English 108	3
Math 112*	3	Math 115*	4
History and Soc. Sci.	3	History and Soc. Sci.	3
Phys. Education	1		
	17-18		17-18

Semester 3		Semester 4	
Physics 101	4	Physics 102	4
English 205	3	English 260	3
Education 200	2	Education 250	2
History and Soc. Sci.	3	Speech 210	3
Art 255/Music 205	2	History and Soc. Sci.	3
Elective	3	Electives	2
	17		17

Semester 5		Semester 6	
Physics 420/320	3	Physics 421/321	3
Physics 202	3	Physics 310	4
Geology 101	3	Physics 201	2
Education 302	3	Electives	6
Elective	3		
	15		15

Semester 7		Semester 8	
Education 303	3	Initial Performance Practicum	15
Physics 340*	2		
Electives	10		
	15		

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*Courses recommended but not required.

**Physics Single Teaching Field, 7-12: Same plan as for Comprehensive degerr except omit Biology 101, 102, Geology 101 and Physics 202.

Courses of Instruction
Physics and Physical Science

Physics

101. Introduction to Physics **four hours**
A three-hour laboratory period each week supplements the three lecture-recitation periods. Elementary principles of mechanics, sound, and heat are studied in this course.

102. Introduction to Physics **four hours**
A continuation of Physics 101; includes a study of electricity and magnetism, light, and basic atomic and nuclear physics. PR: Physics 101.

201. Demonstrations in Physics **two hours**
Effective use of everyday materials to illustrate physical phenomena, experience with a variety of lecture equipment, and practice in planning and executing demon-

strations describe the nature of this course. It is designed to serve teachers in both the elementary and secondary schools. PR: Consent of the instructor is sufficient, but a course in one of the physical sciences is highly recommended.

202. Astronomy **three hours**
A study of the physical properties of the solar system, stars, and galaxies, including the concepts of motion, space and time. Occasional night sessions. PR: Recommended: Physics 101.

310. Electricity and Electronics **four hours**
A review of elementary direct and alternating current theory and transient responses of electrical components. Basic theory of vacuum tubes, semiconductors, amplifier principles, and logic circuits is introduced. Four hours of laboratory and two hours of lecture each week is required. PR: Physics 101, 102.

320. Mechanics **three hours**
This course deals with vectors and simple vector coordinate systems, kinematics and dynamics of particle and rigid body motion, centroids and moments of inertia, conservation theorems, and scalar fields. This course also includes elementary hydrostatics, hydrodynamics, thermodynamics, and wave motion. PR: Physics 101, 102; Math 116; or consent of instructor.

321. Mechanics **three hours**
A continuation of 320.

340. Special Problems **two hours**
Individual studies by advanced students of problems of special interest in the field of physics. PR: Physics 101, 102, Math 116.

350. Mathematical Methods of Physics **three hours**
This course deals with the applications of vectors, vector algebra, vector analysis, differential calculus, integral calculus, and differential equations to problems in physics and related scientific fields. PR: Physics 101, 102; Math 115; or consent of instructor.

420. Introduction to Modern Physics **three hours**
A study of elementary relativity theory, particle-wave description of matter, electromagnetic radiation, Schrodinger wave equation with applications to atomic and nuclear physics. PR: Physics 101, 102.

421. Introduction to Modern Physics **three hours**
A continuation of Physics 420.

Physical Science

Physical Science is offered as a fulfillment of the General Education requirement and as an integral part of various science-oriented teaching fields.

100. Scientific Methodology **two hours**
One 1-hour lecture and one 2-hour laboratory per week. This course is a laboratory oriented course designed to emphasize the methods and processes which permeate all scientific disciplines. Students will be exposed to experiences in a variety of areas of the physical sciences. This course is required for all Secondary Education Majors seeking to fulfill their General Studies Science requirement by taking six hours of Physical Science.

101. Astronomy **two hours**
A descriptive survey of the planet earth, the solar system, and the universe. Some of the latest findings and theories about our universe are presented.

102. Chemistry **two hours**
The study of the basic principles and concepts of chemistry. A study of the everyday applications of chemistry are made throughout the course.

103. Geology **two hours**
The study of the materials of the earth's crust and the geological processes in and on the earth. A study is also made of the evolutionary processes of the earth.

104. Physics **two hours**
A general survey course for the non-science major. Emphasis is placed on basic physics principles and their everyday applications rather than on mathematical problem solving.

105. History of Physical Science **two hours**
The study of the development of the physical sciences through the nineteenth century. The major scientific revolutions within the physical sciences and their structure is investigated.

201. General Physical Science **three hours**
Two hours of lecture and one two-hour laboratory assignment. This course is designed to provide elementary education majors with basic concepts in astronomy and physics. *For Elementary Education majors only.*

202. General Physical Science **three hours**
Two hours of lecture and one two-hour laboratory assignment. This course is designed to provide the elementary education majors with the basic concepts of chemistry and geology. *For Elementary Education majors only.*

412. Science in the Elementary School **two hours**
This course is designed as a study of modern practices and techniques in the teaching of science. Students are to be guided in developing instructional units in such areas as the earth and its atmosphere, conservation, living things (plants and animals), energy changes (machines, light, sound, electricity, and magnetism) and outer space. PR: Biol. 101, 102 and 6-8 hours in the physical sciences. This course should be taken the semester prior to the I.P.P.

431. Methods and Materials in Teaching Science **two hours**
The course is designed for students preparing to teach science at the secondary school level. Students will investigate the nature of science and science teaching, develop instructional units, become familiar with science curriculum projects, and study the special instructional procedures related to science teaching. Offered only second semester of each year.

POLITICAL SCIENCE

(Division of Social Science)

The political science curriculum is designed to provide an understanding of the political process in its many manifestations, including among other things: (1) the structure of government institutions; (2) the political behavior of individuals and groups; (3) the study of public problems characteristic of modern societies; and (4) a consideration of the interrelationships of institutions at different levels of our own government as well as those of others.

The principle objectives of the Department of Political Science are: (1) to lay the basic for an understanding of governmental and administrative processes for those individuals planning public service careers in national, state, or local government; (2) to convey a facility for the substance and methods of the study of government and politics as preparation for graduate work in political science or public administration; and (3) to provide thorough pre-professional training for those students anticipating law school.

Courses offered in the Department allow students to concentrate in broad fields and to develop more specialized programs reflecting their particular interests. Generally, 100-200 level courses are survey courses and 300-400 level courses are specific topic courses. While both the major and minor in political science typically consist of necessary introductory work, the departmental faculty strongly urges students to take 200, 240, and 470. Programs should be planned in consultation with an adviser, and the student himself is encouraged to explore a variety of courses.

Major 30 sem. hrs.

Required Courses	
103 American National Government	3
Electives in Political Science	27

Minor 15 sem. hrs.

Required Courses	
103 American National Government	3
Electives	
Any other Political Science Courses	12

Model Schedule for the Major

First Year

Semester 1		Semester 2	
Poli. Sci. 103	3	Poli. Sci. 200	3
English 104	3	English 108	3
History 107 111	3	History 108/112	3
For. Lang.	3	For. Lang.	3
Science/Math	3	Science/Math	3
Art/Music	3	Phys. Ed.	1
	17		16

Continued

Second Year

Semester 3		Semester 4	
Poli. Sci. 240	3	Poli. Sci. 201	3
English 250	3	English 260	3
Sociology 110	3	Psychology 101	3
For. Lang.	3	For. Lang.	3
Minor	3	Minor	3
	15		15

Third Year

Semester 5		Semester 6	
Poli. Sci. 205	3	Poli. Sci. 303	3
Poli. Sci. 203	3	Poli. Sci. Elective	3
Speech 101	3	Soc. Sci. Elective	3
Soc. Sci. Elective	3	Elective	3
Minor	4	Minor	5
	16		17

Fourth Year

Semester 7		Semester 8	
Poli. Sci. 304	3	Poli. Sci. 470	3
Poli. Sci. 411	3	Poli. Sci. elective	3
Poli. Sci. elective	3	Poli. Sci. elective	3
Soc. Sci. elective	3	Elective	3
Elective	2	Minor	3
Minor	3		
	17		15

Minor minimum 15 sem. hrs.

Required Courses	
103 American National Government	3
Minimum Electives in Political Science	15
Suggested Courses for the Minor	
First Year:	
Poli. Sci. 103 (required)	3
Second Year:	
Poli. Sci. 200	3
Third Year:	
200/300 level electives	3-6
Fourth Year:	
300/400 level electives	3-6

Courses of Instruction
Political Science

103. American Government **three hours**
A survey of the American political system dealing with the form and function of the American federal system.

200. Introduction to Political Science **three hours**
A study of the fundamentals of politics and key issues; the concept of the state and its agent, government; types of political authority; the scope of governmental activities; the problem of world order. PR: 103.

201. Principles of International Relations **three hours**
A study designed to acquaint the student with the theory and practice of international relations. PR: 103.

203. Comparative Government **three hours**
A survey designed to give a broad general acquaintance with the political institutions and government practices of certain nations. PR: political science 103.

204. Introduction to Public Adminsitration **three hours**
An introductory study of the origins, structures, and processes of government administration. PR: 103.

205. State and Local Government **three hours**
A study of the structure and function of American state and local governments. PR: 103.

240. Nonparametric Statistics **three hours**
Introduces the student to the fundamental principles of descriptive and inferential statistics with an emphasis on the analysis of nominal and ordinal data. These areas include nonparametric tests of significance, scaling, coding, and a discussion of hypothesis construction. This course should be taken durin the Sophomore year. No prerequisites. (Credit in either Political Science or Sociology).

303. Political Parties **three hours**
A study of the origins, growth, and development of the American political party. PR: 103.

304. American Constitutional Government **three hours**
A study of the constitutional development of the American Federal System. PR: 103.

305. American Political Theory **three hours**
A study of the political literature which has given expression to the ideas of individual liberty enjoyed by American citizens. PR: 103.

310. Recent Political Theory **three hours**
An analysis of the development and theoretical foundations of three major ideologies of the nineteenth and twentieth centuries. Communism, Fascism, and Democracy. PR: 103 and consent.

321. U.S. Foreign Policy **three hours**
A study of U.S. foreign policy formulation and of policies by areas and functions. PR: 103 and 201.

350. International Organization **three hours**
A study of the structure and functions of international institutions and legal processes involved in the effort to maintain peace and security in the world. PR: 103.

360. Government and Politics of the Far East **three hours**
A study of political systems and developments in the countries of Communist and Nationalist China, South and North Korea, and Japan, with emphasis on Communist China, including such relevant aspects as the historical foundation, the economic problems, and the foreign policy of the state.

393. The Future of Man **three hours**
A team-taught multi-disciplinary study of the future and its possible alternatives. Areas of concentration are subject to students' choice.

404. Civil Liberties in the U.S. **three hours**
A study of the nature and substance of civil liberties in the United States. The philosophy underlying the Bill of Rights will be analyzed and the development of each of the great freedoms protected therein, such as free speech, free press, and free religion among others, will be described and discussed. Particular attention will be

given to how the Supreme Court has interpreted and applied the guarantees contained within the Bill of Rights in specific instances. PR: Political Science 103 and consent of instructor.

406. International Problems **three hours**
The foreign policies of the nations and the machinery established and functioning for the peaceful adjustments of international differences. PR: 103 and consent of instructor.

410. Problems in American Government **three hours**
A study of current problems affecting the structure and function of American national government. PR: Political Science 103 and consent of instructor.

411, 412, 413. Area Studies **three hours**
Studies of selected areas or regions of the world conducted on an interdisciplinary basis. The area selected and the time span studied will be determined by the instructor. PR: 103 and consent of the instructor.

470. Seminar in Political Science **three hours**
A survey of recent developments in the practice and theory of politics with an emphasis on independent study. PR: Consent of the instructor.

PSYCHOLOGY

(Division of Social Science)

The Psychology curricula represent the dynamic place that psychology, the science of behavior, holds in the evolution of academia and society. Through three alternative tracks for a Bachelor of Science Degree and varied course offerings, the Curricula meet the demands of majors, minors, the campus community, and the community beyond the campus.

While only one Bachelor of Science Degree in psychology is conferred, there are three alternative tracks from which a major may be chosen.

The General Program for majors or minors provides students a sound background of course work in basic psychology that is an excellent preparation for graduate school in psychology or allied behavioral sciences. Further, these courses fulfill a need for understanding and information sought by students and community members dealing with problems of both personal and societal adjustments. There is a minor offered with this track of the Curriculum.

The Technical Programs offer a preprofessional degree in either Community Service or Industrial-Personnel Psychology. These programs, founded upon basic psychology courses from the General Program, develop marketable skills that prepare the graduate for a career in the use of psychological techniques and principles applied to community and industrial situations. There is no minor offered with these tracks.

Students interested in psychology as a major should consult a member of the psychology department during their freshman year for assistance in proper pacing and selection of electives.

Bachelor of Science Alternative Tracks

A. General

Major 37 sem. hrs.

Required Courses

101	Introduction to Psychology I	3
102	Introduction to Psychology II	3
210	Personal Adjustment	3
*230	Social Psychology (Same as Soc. 305)	3
240	Statistics	4
300	Abnormal	3
310	Experimental	3
330	Developmental	3
350	Physiological	3
370	Theories of Learning	3
400	Psychological Assessment	3
460	Seminar	3

For credit towards a Degree or Minor in Psychology, this course must be registered under sychology 230. Credit for both Psychology and Sociology is not permitted.

Minor 18 sem. hrs.

Required Courses

101	Introduction to Psychology I	3
102	Introduction to Psychology II	3
Any two courses from the 200 Level		6
Any two courses from the 300 or 400 Levels		6

B. Industrial-Personnel

Major 46 sem. hrs.

Required General Courses 31 Sem. Hrs.

101	Introduction to Psychology I	3
102	Introduction to Psychology II	3
210	Personal Adjustment	3
*230	Social Psychology (Same as Soc. 305)	3
240	Statistics	4
260	Industrial and Personnel	3
310	Experimental	3
360	Human Learning	3
400	Psychological Assessment	3
460	Seminar	3

Required Technical Courses 15 Sem. Hrs.

481	Methods I	3
483	Methods II	3
485	Advanced Psychometrics	3
487	Practicum I	3
489	Practicum II	3

*For credit towards a Degree or Minor in Psychology, this course must be registered under Psychology 230. Credit for both Psychology and Sociology is not permitted.

C. Community Service

Major 52 sem. hrs.

Required General Courses 28 Sem. Hrs.

101	Introduction to Psychology I	3
102	Introduction to Psychology II	3
210	Personal Adjustment	3
240	Statistics	4
250	Community Psychology	3
300	Abnormal	3
330	Developmental	3
400	Psychological Assessment	3
460	Seminar	3

Required Technical Courses 12 Sem. Hrs.

491	Psychopathology of Childhood and Adolescence	3
493	Aging	3
495	Delinquency	3
Any two of the above three		
497	Practicum I	3
498	Practicum II	3

Required Elective Courses 12 Sem. Hrs.

Usually courses from disciplines outside of Psychology. Electives decided upon in consultation with consent of adviser.

Recommended Schedule for B.S. in Psychology General Program

First Year

Semester 1	
Psychology 101	3
*English 104	3
*Math or Science	3
*Fine Arts	2
*Physical Education 108	2
**Elective	3
	16

Semester 2	
Psychology 102	3
Psychology 210	3
*English 108	3
*Math or Science	3
**Elective	3
	15

Second Year

Semester 3	
Psychology 230	3
Psychology 240	4
*English 250	3
**Elective	3
*History or Social Science	3
	16

Semester 4	
Psychology 300	3
Psychology 330	3
*English 260	3
*History or Social Science	3
Elective	3
Speech 101	3
	18

Third Year

Semester 5	
Psychology 310	3
Psychology 400	3
*History or Social Science	3
Electives	9
	18

Semester 6	
Psychology 350	3
Psychology 370	3
Electives	9
	15

Fourth Year

Semester 7	
Psychology 460	3
Electives	12
	15

Semester 8	
Electives	15

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*General Studies Requirements (GSR).

**Any elective maybe taken here or one of the GSR.

Recommended Schedule for B.S. in Industrial-Personnel Psychology

First Year

Semester 1		Semester 2	
Psychology 101	3	Psychology 102	3
*English 104	3	Psychology 210	3
*Math or Science	3	*English 108	3
*Fine Arts	2	*Math or Science	3
*Physical Education 108	2	**Elective	3
**Elective	3		
	16		15

Second Year

Semester 3		Semester 4	
Psychology 230	3	Psychology 260	3
Psychology 240	4	Psychology 310	3
*English 250	3	*English 260	3
**Elective	3	*History or Social Science	3
*History or Social Science	3	Elective	3
		Speech 101	3
	16		18

Third Year

Semester 5		Semester 6	
Psychology 481	3	Psychology 483	3
Psychology 360	3	Psychology 400	3
*History or Social Science	3	Electives	9
Electives	9		
	18		15

Fourth Year

Semester 7		Semester 8	
Psychology 485	3	Psychology 489	3
Psychology 487	3	Psychology 460	3
Electives	9	Electives	9
	15		15

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*General Studies Requirements (GSR).

**Any elective maybe taken here or one of the GSR.

Recommended Schedule for B.S. in Community Service Psychology

First Year

Semester 1		**Semester 2**	
Psychology 101	3	Psychology 102	3
*English 104	3	Psychology 210	3
*Math or Science	3	*English 108	3
*Physical Education	2	*Math or Science	3
*Fine Arts	2	**Elective	3
**Elective	3		
	16		15

Second Year

Semester 3		**Semester 4**	
Psychology 240	4	Psychology 300	3
Psychology 250	3	Psychology 330	3
*English 250	3	*English 260	3
*History or Social Science	3	*History or Social Science	3
**Elective	3	Elective	3
		*Speech	3
	16		18

Third Year

Semester 5		**Semester 6**	
Psychology 400	3	Psychology (491, 493, or 495)	3
Psychology (491, 493, or 495)	3	Electives	12
*History or Social Science	3		
Electives	9		
	18		15

Fourth Year

Semester 7		**Semester 8**	
Psychology 497	3	Psychology 460	3
Electives	12	Psychology 498	3
		Electives	9
	15		15

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*General Studies Requirements (GSR).

**Any elective may be taken here or one of the GSR.

NOTE: There are 12 semester hours of required elective courses, which are usually taken from disciplines outside of Psychology. These electives must be decided upon in consultation and with consent of adviser.

Psychology Minor

While the psychology minor may interest many as a form of intellectual serendipity or in an inappropriate attempt at self-understanding, its greatest strength and usefulness is as a well-coordinated adjunct to the declared discipline of intense study. The psychology curriculum is varied enough that certain courses can offer valuable insights into the relationships between a given major and human behavior. To insure the selection of relevant courses, students interested in obtaining a psychology minor should discuss their plans with a psychology faculty member before completing more than 9 hours in psychology. Although this is not an institutional requirement, it is in the interest of the student to do so.

The psychology minor requires 18-hours in psychology.

Recommended Schedule

First Year

Semester 1		Semester 2	
Psychology 101	3	Psychology 102	3

Remaining hours of the first year should be in Major and in General Studies Requirements. After the first year the selection of courses and their scheduling are the responsibility of the student.

Courses of Instruction
Psychology

General Program

101. Introduction to Psychology I **three hours**
Topics include: Psychology as a science, statistics, learning, motivation, emotion, personality, and developmental psychology.

102. Introduction to Psychology II **three hours**
Topics include: physiology, sensation, perception, social, behavior pathology, cognitive processes, industrial, community, testing, and Psychology as a profession. PR: Psychology 101.

210. Personal Adjustment **three hours**
A basic course in the analysis of human behavior. Special emphasis is given to the mechanisms of adjustment and the development of healthy individual adjustment modes. PR: Psychology 101.

220. History of Psychology **three hours**
Traces the development of the science of Psychology from its origins in philosophy, physiology, and medicine, to the modern era. PR: Psychology 101.

230. Social Psychology (Same as Sociology 305) **three hours**
A study of how man affects and is affected by other men. Topics include: Social psychological foundations of person perception, affiliation, influence, group structure and dynamics, attitude formation and change. PR: Psychology 101.

240. Statistics **four hours**
Elementary statistical description and analysis as employed particularly in the behavioral sciences. Three hours lecture, one hour laboratory per week. PR: Psychology 101.

250. Community Psychology **three hours**
Lectures, discussion, readings, and field-observation designed to acquaint the student with the philosophy, technique, and theory of community mental health. PR: Psychology 101.

260. Industrial and Personnel Psychology **three hours**
Psychological concepts and methods as applied to personnel management, human-factors engineering, employee selection, motivation, training, productivity, consumer psychology, and human relations. PR: Psychology 101.

300. Abnormal **three hours**
A survey of the antecedents, diagnosis, treatment, and prevention, of various maladjustments and personality disturbances. PR: Psychology 101, 210, 240.

310. Experimental **three hours**
An introduction to the procedures of experimental research, design, and evaluation, using principally laboratory techniques. Two hours lecture, two hours laboratory weekly. PR: Psychology 101, 102, 240.

320. Sensation and Perception **three hours**
An examination of the classical concepts in sensation and perception and of the resulting psycho-physical data for each of the major senses with an emphasis on vision and audition. Psychology and modern perceptual formulations are discussed through the analysis of empirical data. PR: Psychology 101, 102, 310.

330. Developmental **three hours**
A longitudinal study of behavior change and development through the life-span of the human. Phases include prenatal to old age. Cross culture comparisons are made where possible. This course may not be substituted for or by Education 302 or 303 and Home Economics 330. PR: Psychology 101, 102.

340. Operant Techniques and Applications **three hours**
A detailed study of operant techniques and methodologies from the experimental laboratory to the community at large. Emphasis is placed on the development of skills in the observation, manipulation, and evaluation, of various behavior control techniques in the light of ethical concerns. PR: Psychology 101, 102, 310, or Consent of Instructor.

350. Physiological **three hours**
Basic development, structure, and function of the central nervous system, autonomic nervous system, and endocrine system. The emphasis is upon the relation between physiological functioning and the behavior of the normal, intact, whole organism. PR: Psychology 101, 102 or Consent of Instructor.

360. Human Learning **three hours**
The study of the influences on and the processes of thinking, memory, perception, cognition, and verbal behavior, are emphasized. PR: Psychology 101, 102, 310, or Consent of Instructor.

370. Theories of Learning **three hours**
A study of the experimental procedures, data, and concepts, dealing with changes in behavior usually defined as learning. The emphasis is on a detailed analysis of various theories of learning and contemporary approaches. PR: Psychology 101, 102, 310.

390. Foundations of Psychology **three hours**
A detailed study of the methodological and philosophical issues involved in the analysis of behavior. Such topics as operationalism, formalism, reductionism, logical analysis and the nature of data in the behavioral sciences are introduced and related to research in the various areas of psychological interest. The objectives are to provide insight into the nature of scientific research, to foster the ability to construct empirical hypotheses, to develop facility in designing experimental tests of hypotheses, to promote effective reading and evaluation of psychological journals, and to encourage writing and speaking about theory and experimentation. PR: Psychology 101, 102, 310.

393. The Future of Man **three hours**
A team-taught multi-disciplinary study of the future and its possible alternatives. Areas of concentration are subject to students' choice.

400. Psychological Assessment **three hours**
General theory of measurement as involved in various areas of psychology such as psychological tests, attitude scales, psychophysics, and quantified behavior theory. PR: Psychology 240 or Consent of Instructor.

410. Theories of Personality **three hours**
Critical consideration of the major theories of personality, including Freudian, neo-Freudian, learning and trait theories. The basis of personality theory development will also be emphasized. PR: Psychology 101, 102, 300.

420. Comparative-Ethological Psychology **three hours**
A study and comparison of the methods and major theories in ethology and psychology as related to the behavior of species at different phylogentic levels. Through lectures, laboratory, and field observations, topics covered are behavior as related to species, speciation and evolution; imprinting, learning, the place of animal experimentation in psychology, and aspects related to population and ecology. PR: Psychology 101, 102, 310, or Consent of Instructor.

460. Seminar **three hours**
The discussion of specific research topics as reported in the contemporary psychological literature and decided upon by the faculty instructor. Rotated among faculty each semester. Results from individual research projects are an object of this course. PR: Consent of Instructor. May be repeated once.

480. Directed Studies **variable credit**
one, two, three hours
Intensive study and reading of a topic selected by the student and instructor. Requirements and hours credit decided before registration through instructor-student consultation. PR: Consent of Instructor. (Six hour limit.)

490. Directed Research **variable credit**
one, two, three hours
Opportunity for work on individual library or experimental projects. Requirements, including a thesis, and hours credit decided before registration through instructor-student consultation. PR: Consent of Instructor. (Six hour limit.)

Industrial—Personnel Program

481. Industrial Psychology, Methods I **three hours**
Skills and understanding are developed in the areas of job analysis, performance appraisal, training, motivation, attitudes, job satisfaction, productivity, and consumer psychology. Some field work required. PR: 101, 102, 230, 240, 260, 310, 360, or Consent of Instructor.

483. Industrial Psychology Methods II **three hours**
Skills and understanding are developed in the areas of: leadership, supervision, communication, organizational behavior, accidents and safety, fatigue, monotony, working conditions, and engineering psychology. Some field work required. PR: 481 or Consent of Instructor.

485. Advanced Psychometrics **three hours**
Topics concerned with personnel selection and placement, as well as a more advanced treatment of reliability and validity. Skills in these areas are developed. PR: 400 and Consent of Instructor.

487. Practicum I **three hours**

489. Practicum II **three hours**
These Practica afford an application of knowledge and techniques developed within the Industrial-Personnel Program. Students work under supervision in participating businesses, industries, and institutions. The remaining time is spent in lectures, discussion, and reading to enhance the student's training. PR: Courses in Industrial-Personnel Program and Consent of Instructor.

Community Service Program

491. Psychopathology of Childhood and Adolescence **three hours**
Problems of etiology, diagnosis and treatment of maladjustment in childhood and adolescence. Problems like drug addiction, juvenile delinquency are analyzed and discussed. PR: Psychology 300, 330, or Consent of Instructor.

493. The Psychology of Aging **three hours**
A study of problems facing the aging. The psychological, social, and physiological aspects of aging and methods of treatment are analyzed and discussed. PR: Psychology 300, 330, or Consent of Instructor.

494. Interpersonal Dynamics **three hours**
The main objective of the course is to develop techniques and basic skills required for effective operation in a psychological setting, which include: interviewing, role-playing, and facilitating dyadic and small "dynamics centered" group interaction. Further, these techniques as diagnostic and therapeutic methods are experienced and discussed in terms of various psychological theories of communication. PR: Speech 101, courses in Community Service or Industrial-Personnel, and consent of Instructor.

495. The Psychology of Delinquency **three hours**
Factors in the etiology of the delinquent in the modern society with special emphasis on the urban scene. Personality and emotional problems associated with delinquency, and problems of treatment. Students will visit persons and institutions for juvenile delinquents. PR: 300, 330, or Consent of Instructor.

497. Clinical Practicum I **three hours**

498. Clinical Practicum II **three hours**
An application of knowledge and techniques developed within the psychology program. Students work under supervision in assigned agencies or institutions. Other practicum assignments are made as available. The remainder of time is spent in lectures, discussion, and reading to enhance the student's training. PR: Courses in Community Service Program and Consent of Instructor.

SOCIAL STUDIES

(Division of Social Science)

The Social Studies program (comprehensive and subject specialization) is intended primarily for students preparing to teach in the elementary or secondary schools and can be selected only by those seeking a B. A. in Education degree. It is designed to provide an interdisciplinary foundation necessary for teachers entering an integrated social studies program. Students desiring to teach a particular subject such as history, for example, should determine the preparation desirable and augment their program with appropriate elective hours.

SOCIAL STUDIES, Comprehensive, grades 7-12 — 59 Sem. Hrs.

History	*107, 108	United States History	6
History	*111, 112	History of Civilization	6
History	*302	West Virginia	3
History	*460	Guided U. S. Historical Study	3
History	*461	Guided World Historical Study	3
History		Elective	3
Sociology	*110	Introductory Sociology	3
Sociology	200	Social Problems	3
Pol. Sci.	*103	American Government	3
Pol. Sci.		Elective, 200 or above	3
Geography	*210	Introduction to Geography	3
Geography		Elective	3
Economics	*201, 202	Economic Principles & Problems	6

In addition, a choice must be made from one of the following:

1) History & Soc. Stud. electives 9
Six hours of History and three to be chosen from economics, geography, history, philosophy, political science, psychology, or sociology.
or
2) Twelve hours of a foreign language
or
3) A second teaching field, grades 7-9, or 7-12.

431. Methods and Materials of Teaching Social Studies — two hours
Theory and practice in secondary school social studies. Students participate in laboratory exercises using various techniques of teaching social studies and become familiar with the professional literature in social studies teaching and its various disciplines. Each student is also required to plan and teach at least one micro-unit. (Included as part of the Initial Performance Practicum)

SOCIAL STUDIES, Subject Specialization, grades 1-9 or 7-9 — 36 Sem. Hrs.

History	*107, 108	United States History	6
History	*111, 112	History of Civilization	6
History	*302	West Virginia	3
History	319	Recent America	3
History	341	Recent Europe	3
Geography	*210	Introduction to Geography	3
Pol. Sci.	*103	American Government	3
Sociology	110	Introductory Sociology	3
Economics	200	Economics	3
or			
Economics	201	Economic Principles and Problems	3
One three-hour elective selected from history, geography, political science, economics or sociology			3

*Courses marked with an asterisk must be completed prior to admission to the Initial Performance Practicum.

Social Studies Comprehensive 7-12

First Year

Semester 1		Semester 2	
Eng. 104 Written English	3	Eng 108 Advanced English	3
Hist 111 World Civilization	3	Hist 112 World Civilization	3
Sci/Math* Elective	3-4	Sci/Math Elective	3-4
Art 255 Art Appreciation		Speech 210 Speech for Teachers	3
or		Geog 210 Intro to Geog	3
Music 205 Music Appreciation	2	Educ 200 Intro to Educ	2
Pol Sci 103 American Government	3		
HPER Any Basic Course	1		
	15-16		17-18

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*Science or Math Elective must be in the same subject and in sequence.

Second Year

Semester 3		Semester 4	
Eng 260 English Literature	3	Eng 250 US Literature	3
Econ 201 Macroeconomics	3	Econ 202 Microeconomics	3
Soc 110 Intro to Sociology	3	Hist 108 US Since 1865	3
Psych 101 Intro to Psychology	3	Soc 200 Social Problems	3
Hist 107 US to 1865	3	Geog 330 North America	3
Pol Sci 200 Intro to Pol Sci	3	Educ 250 Found of Ed	2
	18		17

Third Year

Semester 5		Semester 6	
Hist 460 Guided US Study	3	Hist 461 Guided World Study	3
Hist 302 West Virginia	3	Hist 319 Recent US	3
Pol Sci 205 State and Local Govt	3	Pol Sci 203 Comparative Govt	3
Educ 302 Human Growth & Dvlp	3	Educ 303 Educational Psych	3
Elective	3	Elective	3
	15		15

Fourth Year

Semester 7		Semester 8	
Soc 301 Anthropology (recommended)	3	Initial Performance Practicum	13
Phil 200 Intro to Philosophy	3	Hist 431 Methods	2
Elective	3		
Elective	3		
Elective	3		
	15		15

**The Fourth Year semesters are interchangeable.

Social Studies Specialization 1-9 or 7-9

First Year

Semester 1		**Semester 2**	
Eng. 104 Written English	3	Eng. 108 Adv. English	3
History 111 World Civiliz.	3	History 112 World Civiliz.	3
Biol. 101 Gen. Biology	3	Biol. 102 Gen. Biology	3
Art 255 Art Appreciation		Math 110 Math for Elem.	3
or		Elective	3
Music 205 Music Appreciation	2		
HPER Any basic P.E. Course	1		
Pol. Sci. 103 American Govern.	3		
	15		15

Second Year

Semester 3		**Semester 4**	
Eng. 250 Amer. Literature	3	Eng. 260 English Lit.	3
History 107 America to 1865	3	History 108 America since 1865	3
Math 210 Math for Elem.	3	Eng. 207 Child Lit.	3
Phys. 201 Physical Sci.	3	Phys. 202 Physical Sci.	3
Soc. 110 Intro. to Sociology	3	Educ. 200 Intro. to Ed.	2
		Speech 210 Speech for Teach.	3
	15		17

Third Year

Semester 5		**Semester 6**	
Educ. 250 Soc. Found. of Ed.	2	Econ. 200 or 201 Economics	3
Art 353 Art for Elem.	2	Educ. 302 Human Growth & Dev.	3
Music 231 Music for Elem.	3	Art 354 Art for Elem.	2
Health 310 School Health	3	Music 232 Music for Elem.	3
Soc. St. Elective	3	Elective	3
Geog. 210 World Geog.	3	History 302 West Virginia	3
	16		17

Fourth Year

Semester 7		**Semester 8**	
HPER 329 P.E. for Elem.	3	Educ. 401 Reading in Elem.	2
History 341 Recent Europe	3	Educ. 402 Math in Elem.	2
History 319 Recent America	3	Educ. 403 Lang. Arts in Elem.	2
Educ. 303 Educ. Psychology	3	Educ. 404 Soc. St. in Elem.	2
Electives	5	Sci. 412 Science in Elem.	2
		Educ. 420 Student Teach.	6
	17		16

TOTAL = 128

SOCIOLOGY

(Division of Social Science)

The Sociology Department provides two distinct program alternatives for students who major in the B.S. program in Sociology: 1) The General Emphasis in Sociology and 2) The Social Work Emphasis in Sociology.

General Emphasis Program

The General Emphasis Program will expand a students ability to question and understand various forms of social interaction in social and cultural systems. Here the department will provide knowledge of the substantive areas of sociology and anthropology, the use of concepts and research techniques of sociological investigation, and background in sociological theory.

Social Work Emphasis Program

The Social Work Emphasis Program is designed to give students an extensive background in the theories, ideas, and philosophies of social welfare and its institutions. Moreover, the Practicum is complimented by fundamental academic background in sociology and practical field experiences in social work. Majors in this program, upon graduation will be prepared to engage in the profession of Social Work without further training. This program will benefit those students who wish to apply their knowledge in a professional career.

Students in the general emphasis program and the social work program in Sociology will receive a broad preparation for graduate training.

Major, General Emphasis 30 sem. hrs.

Required Courses			18
110	Introductory Sociology	3	
200	Social Problems	3	
240	Nonparametric Statistics	3	
301	Anthropology	3	
460	Methods of Social Research	3	
470	Sociological Theory	3	
Electives in Sociology			12

Minor, General Emphasis 18 sem. hrs.

Required Courses			9
110	Introductory Sociology	3	
200	Social Problems	3	
301	Anthropology	3	
Electives in Sociology			9

Major, Social Work Emphasis 42 sem. hrs.

Required Courses			33 Sem. Hrs.
Sociology	110	Introductory Sociology	3
Sociology	200	Social Problems	3
Sociology	240	Nonparametric Statistics	3
Sociology	301	Anthropology	3

Sociology	360	The Field of Social Work	3
Sociology	370	Social Policy	3
Sociology	375	Social Group Work	3
Sociology	460	Methods of Social Research	3
Sociology	470	Sociological Theory	3
Sociology	480	Social Casework	3
Sociology	485	Social Work Practicum	3

Electives (to be chosen from the following list of electives, other electives in Sociology may not be substituted)

9 Sem. Hrs.

Sociology	305	Social Psychology	3
Sociology	310	Sociology of the Family	3
Sociology	330	Urban Sociology	3
Sociology	340	Juvenile Delinquency	3
Sociology	430	Community Organization	3
Sociology	499	Seminar: Special Problems in Sociology	3
Psychology	250	Community Psychology	3
Psychology	491	Psychopathology of Childhood and Adolescents	3

Sociology Majors
General Emphasis

Semester 1	
Sociology 110	3
Psychology 101	3
Science & Mathematics Required	
Biology 101 Recommended	3
English 104	3
Art 255 or Music 205	2
Physical Education (Any basic activity course)	1
	15

Semester 2	
Sociology 200	3
History 107 or Political Science 103 Recommended	3
Biology 102 Recommended	3
English 108	3
Minor	3
	15

Semester 3	
Sociology 301	3
Philosophy 325 or EDP 100 Recommended	3
English 250	3
Speech 101	3
History 108 or Economics 200 Recommended	3
Minor	3
	18

Semester 4	
English 260	3
Minor	3
Sociology 240	3
Sociology 305 Recommended	3
EDP 100 Recommended or Philosophy 325	3
	15

Semester 5	
Sociology 460	3
History 390 Recommended	3
Minor	6
Sociology 360 or 370 Recommended	3
Psychology 250 Recommended	3
	18

Semester 6	
Sociology 470	3
Minor	3
Sociology 330 or 410 Recommended	3
Psychology 260 Recommended	3
Remaining General Electives	4
	16

Continued

Semester 7	
Sociology 471 Recommended	3
Sociology 490 Recommended	3
Minor	3
Sociology 340 and 450 Recommended	6
	15

Semester 8	
Sociology 461 Recommended	3
Sociology 499 Recommended	3
Remaining General Electives	10
	16

General Studies Requirements	33
Requirements in Sociology	30
Minor	21
	84
General Electives	44
	128

Minor
General Emphasis

Semester 1	
Sociology 110	3

Semester 2	
Sociology 200	3

Semester 3	
Sociology 301	3

Semester 4	
Sociology Elective Sociology 360 or Sociology 470 (Recommended).	3

Semester 5	
Sociology Elective Sociology 460)Recommended)	3

Semester 6	
Sociology Elective Sociology 470 (Recommended)	3
	18

Sociology Majors
Social Work Emphasis

Semester 1	
Sociology 110	3
Psychology 101 Recommended	3
Biology 101 Recommended	3
English 104	3
Art 255 or Music 205	2
Physical Education (Any basic activity course)	1
	15

Semester 2	
Sociology 200	3
History 107 or Political Science 103 Recommended	3
Biology 102 Recommended	3
English 108	3
Minor	3
	15

Continued

Semester 3

Sociology 301	3
Sociology 360	3
English 250	3
Speech 101	3
History 108 or Economics 200 Recommended	3
Minor	3
	18

Semester 4

English 260	3
Minor	3
Sociology 240	3
Sociology 305 Recommended	3
Sociology 370	3
	15

Semester 5

Sociology 460	3
Sociology 480	3
Minor	6
Sociology 430 Recommended	3
Psychology 250 Recommended	3
	18

Semester 6

Sociology 470	3
Minor	3
Sociology 310 Recommended	3
Sociology 375	3
General Electives	4
	16

Semester 7

Sociology 461 Recommended	3
Sociology 490 Recommended	3
Minor	3
General Electives Sociology Recommended	6
	15

Semester 8

Sociology 485	3
Sociology 499	3
Remaining General Electives Psychology, Recreation, Speech, Home Economics, Recreation, Journalism Recommended	10
	16

General Studies Requirements	33
Requirements in Sociology	42
Minor	21
	96
General Electives	32
	128

Courses of Instruction
Sociology

110. Introductory Sociology **three hours**

The course is built around selected sociological concepts to provide a general understanding of our modern society.

200. Social Problems **three hours**

A study of social stresses and strains in important areas of human relationships. PR: Soc. 110.

240. Nonparametric Statistics **three hours**

Introduces the student to the fundamental principles of descriptive and inferential statistics with an emphasis on the analysis of nominal and ordinal data. These areas include non-parametric tests of significance, scaling, coding, and a discussion of hypothesis construction. This course should be taken during the Sophomore year. No prerequisites. (Credit in either Political Science or Sociology).

301. Anthropology **three hours**
A study of human biological and social origins, including human pre-history, race, the origin and nature of culture, social organization among preliterate peoples, cultural diffusion, and culture change. PR: Soc. 110.

305. Social Psychology **three hours**
A study of social structure and social interaction. Techniques of leadership and control will receive special study. PR: Soc. 110. Psychology 101 or Education 302 and 303 recommended. Same course as Psychology 230.

310. Sociology of the Family **three hours**
A study of the background, structure and function of the American family with emphasis placed on the effect of social change upon the family. The meaning of the paired relationship is examined along with alternatives to marriage and the family. PR: Soc. 110.

325. Social Stratification **three hours**
The course includes an analysis of social structure and stratification in terms of class, status, and power relations in society; an examination of theories and research findings.

330. Urban Sociology **three hours**
A study of the characteristics of urban society including its culture, social relationships and institutions. Urban society is studied in comparison with rural society as a part of the American Society. PR: Soc. 110, 200.

340. Juvenile Delinquency **three hours**
A study of what society defines as delinquent behavior and of the young people designated as delinquents. Emphasis will be placed on the causes of delinquency and on the various techniques and methods of prevention, treatment, and rehabilitation. PR: Soc. 110, 200.

360. The Field of Social Work **three hours**
A study of the history and development of social work with special emphasis upon modern social work agencies and the services which they render. Various types of social work will be considered from the standpoint of the prospective social worker. PR: 110, 200, Psych. 101.

370. Social Policy **three hours**
The examination of the inter-relationship among various social welfare programs, policy issues, and the rate of social work in terms of the American social welfare system. PR: 360. This course may not be used for the social studies teaching field.

375. Social Group Work **three hours**
The study of group theory as it relates to small groups, large groups and organizations. Specific areas will include: client groups; task groups; staff groups; committee structure; organizing groups within communities. PR: Soc. 360.

380. Afro-American History & Culture **three hours**
A multi-disciplinary approach to the Negro in American life beginning with African civilization and covering the period up to and including the American Civil War. (Credit in History or Sociology)

381. The Black Man in America **three hours**
An in-depth study of the history and culture of the Black Man in the United States from 1865 to present. (Credit in history or sociology)

410. Industrial Sociology **three hours**
A study of the organization, structure, function and social relationship found in the various areas of industrial activity in American society. The area of industrial relations will receive special emphasis. PR: Soc. 110.

430. Community Organization **three hours**
A study of the structure and function of the various social groupings found in the community. The course is oriented toward the development of community leadership talent. PR: Soc. 110, 200.

450. Minority Groups **three hours**
A study of racial and cultural minority groups in the United States with special emphasis upon understanding the cause of their persistence and the reason for majority-minority antagonisms. A study of the techniques whereby prejudices are developed and reduced will be made. PR: Soc. 110, 200.

460. Methods of Social Research **three hours**
This course is an introduction to the planning and implementation of social research projects. The course will consider the topics of variables & hypotheses, flowcharts, tables, questionnaires, coding instructions & data sheets, machine processing, and survey analysis of the data. PR: 110 and 200.

461. Advanced Methodology **three hours**
This course will critically interrelate and compare the various stages of social research such as conceptualization of hypothesis, measurement, experimental design, sampling, data collection, data analysis, and data interpretation. Within this format, various special topics will be developed depending upon the available resources. PR: Soc. 460 or consent of the instructor.

470. Sociological Theory **three hours**
A study of the historical development of modern sociological thought. PR: Consent of Instructor.

471. Advanced Sociological Theory: A Critical Review **three hours**
An intensive study and critical examination of certain selected sociological theorists and the ways in which they differ and are similar. PR: Sociology 470 or consent.

480. Social Casework **three hours**
A study of the theory, philosophy, goals, and techniques of the social case worker and an examination of the pertinent literature. PR: 370. This course may not be used for the social studies teaching field.

485, 486, and 487. Practicum **one to nine hours**
An examination of the social welfare agency in its daily operation complete with practical observation and experience. PR: 480 and consent of the instructor. This course may not be used for the social studies teaching field.

488 and 489. Practicum **one to twelve hours**
An examination of the social welfare agency in its daily operation complete with practical observation and experience. PR: 480 and consent of the instructor. This course may not be used for the social studies teaching field.

490. Seminar: Sociological Literature **three hours**
A course designed to use original sources and publications not primarily used as texts. PR: Soc. 470 or consent of instructor.

499. Seminar: Special Problems in Sociology **three hours**
Open only for juniors and seniors majoring in Sociology. Reading and research on subjects suited to the student's need. PR: Soc. 470 or consent of instructor.

SPEECH AND DRAMA

(Division of Fine Arts)

Oral communication, man's chief means of communication, has as its purpose to gain utilitarian, aesthetic, and therapeutic results in effective human interaction. All oral communication—public speaking, small group processes, theatre, speech correction and audiology, radio and television, speech education and the allied performance areas—are tied together by common elements of behavior and techniques. The Speech and Drama Department has as its primary aim to assist students in understanding these functions, processes, and effects of oral communication and to teach the principles and methods that make the spoken word effective. The department offerings are designed to meet several needs—curricular and co-curricular:

First, for all students who desire to improve their oral communication skills Speech 101 (Fundamentals of Speech), Speech 107 (Speech Improvement), and Speech 210 (Speech for the Teacher) are offered. If students wish to continue their work, other courses in discussion, debate, interpretative reading, public speaking, theatre, and radio and television may be elected.

Second, for those wishing a Bachelor of Arts degree, a major or minor in Speech and Drama is offered with options in either drama or speech-communication.

Third, for students wishing to prepare to teach speech and drama on the secondary level (grades 7-12), a single teaching field in Speech is offered.

Fourth, for those students who wish to prepare to teach speech and drama on the elementary level (grades 1-9, 7-9), a subject specialization in Speech is offered.

Fifth, all students are invited to participate in all or any of the Speech and Drama Department activities: inter-collegiate debate, discussion, oratory, extemporaneous speaking, and interpretative reading, plays presented by the Masquers, the Masquers Jr. (children's theatre), the Masquers Town and Gown Players (summer theatre), the studio theatre, and radio and television activities.

Major 34 sem. hrs.

I. Required Courses 12

Speech	101	Fundamentals of Speech	3
Speech	105	Voice and Diction	3
Speech	130	Introduction to Broadcasting	2
Drama	120	Theatre Appreciation	2
Drama	221	Oral Interpretation	2

II. Options Select a minimum of 22 semester hours from Drama Option or Speech Communication Option.

A. Drama Option

1. Required Courses 16

Drama	151*	Play Production	2
Drama	152*	Theatre Workshop	1*
Drama	251	Acting	2
Drama	252	Acting Workshop	1
Drama	260	Theatre History	3
Drama	270	Introduction to Theatrical Design	3

Drama	301	Theatrical Make-up	1
Drama	336	Play Directing	2
Drama	337	Play Directing Practicum	1

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*The one required hour in Speech 152 (Theatre Workshop) must be taken concurrently with Speech 151 (Play Production). Previously acquired credit in Speech 152 will not fulfill the requirement.

2. Elective Courses 6

Drama	152	Theatre Workshop	1-3
Drama	222	Advanced Oral Interpretation	2
Drama	223	Oral Interpretation Practicum	1-4
Drama	252	Acting Workshop	1-3
Drama	302	Advanced Theatrical Make-up	1
Drama	321	Summer Theatre: Rehearsal and Performance	1-3
Drama	322	Summer Theatre: Production and Management	1-3
Drama	338	Children's Drama	3
Drama	339	Creative Drama Practicum	1
Drama	340	Children's Theatre Practicum	1
Drama	441	Directed Study in Drama	1

3. Recommended Related Courses

Art 255 or Music 205 (one not used to meet General Requirements), English 318, English 315, English 422, Music 139, Music 141, Art 142, PE 245, PE 247, PE 248.

B. Speech-Communication Option

1. Required Courses 16

Speech	134	Radio and TV Production	3
Speech	237	Persuasive Speaking	2
Speech	240	Group Discussion	3
Speech	243	Argumentation and Debate	3
Speech	245	Oratory	1
Speech	401	Extemporaneous Speaking	1
Speech	430	Speech Correction	3

2. Elective Courses 6

Speech	200	Radio/TV Announcing	3
Drama	222	Advanced Oral Interpretation	2
Drama	223	Oral Interpretation Practicum	1-4
Speech	244	Intercollegiate Debate	1-4
Speech	250	Broadcast Continuity Writing	3
Speech	300	Broadcast Practicum	1-6
Speech	402	Public Speaking Practicum	1-4
Speech	440	Directed Study in Speech	1

3. Recommended Related Courses

English 319, Journalism 270, Psychology 101, Psychology 240.

III. Performance

In order that a student majoring or minoring in Speech and Drama may be recommended for graduation by the Speech and Drama faculty, he must perform extensively in one or more of the department faculty directed/sponsored public performance areas listed below. Performance in these areas is an integral part of the classroom experience. The student's performances in the areas must be extensive enough that the student reaches a satisfactory level of proficiency in at least one of the performance areas. A periodic appraisal of the extent of the student's performance and level of proficiency will be made.

Performance Areas

1. **Drama:** acting, technical crews, directing, public relations, house management, business management, etc. with Masquers, Masquers Town and Gown Players, Masquers, Jr., or studio theatre presentations.
2. **Oral Interpretation:** reader's theatre, inter-collegiate festivals, contests, and other public performances.
3. **Public Speaking (forensics):** inter-collegiate debate, public speaking contests, festivals, and other public speaking presentations.
4. **Radio/TV:** acting, producing, writing, announcing, etc. for FSC campus radio and TV public broadcasts.

Minor 28 sem. hrs.

I. **Required Courses** (Same as Major) 12

II. **Options** Select the minimum of the 16 required semester hours from Drama Option or the Speech-Communication Option

III. **Performance** (Same as Major)

curricula for teaching fields and specializations in speech

Single Teaching Field, Grades 7-12 **32 Sem. Hrs.**

I. Required Courses **27 Sem. Hrs.**

Speech	105*	Voice and Diction	3
Speech	130*	Introduction to Broadcasting	2
Drama**	151*	Play Production	2
Drama**	152*	Theatre Workshop	1
Speech	210*	Speech for the Teacher	3
Drama	221*	Oral Interpretation	2
Speech	237*	Persuasive Speaking	2
Speech	243*	Argumentation and Debate	3
Speech	245	Oratory	1
Drama	251*	Acting	2
Drama	336*	Play Directing	2
Drama	337*	Play Directing Practicum	1
Speech	430	Speech Correction	3

**The one required hour in Speech 152 (Theatre Workshop) must be taken concurrently with Speech 151 (Play Production). Previously acquired credit in Speech 152 will not fulfill this requirement.

II. Elective Courses. Select from either or both areas. **5 Sem. Hrs.**

Drama

Drama	120	Theatre Appreciation	2
Drama	152	Theatre Workshop	1-3
Drama	222	Advanced Oral Interpretation	2
Drama	223	Oral Interpretation Practicum	1-4
Drama	252	Acting Workshop	1-4
Drama	260	Theatre History	3
Drama	270	Introduction to Theatrical Design	3
Drama	301	Theatrical Make-up	1
Drama	302	Advanced Theatrical Make-up	1
Drama	321	Summer Theatre: Rehearsal and Performance	1-3
Drama	322	Summer Theatre: Production and Management	1-3
Drama	338	Children's Drama	3
Drama	339	Creative Drama Practicum	1
Drama	340	Children's Theatre Practicum	1
Drama	441	Directed Study in Drama	1

Speech-Communication

Speech	101	Fundamentals of Speech	3
Speech	134	Radio and TV Production	3
Speech	200	Radio/TV Announcing	3
Speech	240	Group Discussion	3
Speech	244	Intercollegiate Debate	1-4
Speech	250	Broadcast Continuity Writing	3
Speech	300	Broadcast Practicum	1-6
Speech	401	Extemporaneous Speaking	1
Speech	402	Public Speaking Practicum	1-4
Speech	440	Directed Study in Speech	1

III. Performance

In order that the AB in Education student with a teaching field in Speech (grades 7-12) or Language Arts Comprehensive (grades 7-12) may be able to meet the competencies for state teacher accreditation and hence be recommended for the Professional Block by the Speech and Drama faculty, he must perform extensively in one or more of the department faculty directed/sponsored public performance areas listed below. The activities in these areas are necessary co-curricular supplements and extensions of classroom experiences. The student's performances in the areas must be extensive enough that the student reaches a satisfactory level of proficiency in at least one of the performance areas. A periodic appraisal of the extent of the student's performance and level of proficiency will be made.

Performance Areas

1. **Drama:** acting, technical crews, directing, public relations, house management, business management, etc. with Masquers, Masquers Town and Gown Players, Masquers, Jr., or studio theatre presentations.
2. **Oral Interpretation:** reader's theatre, inter-collegiate festivals, contests, and public performances.
3. **Public Speaking (forensics):** inter-collegiate debate, public speaking contests, festivals, and other public speaking presentations.
4. **Radio/TV:** acting, producing, writing, announcing, etc. for PSC campus radio and TV public broadcasts.

Subject Specialization, Grades 1-9, 7-9

I. Required Courses **22-23 Sem. Hrs.**

Speech	105*	Voice and Diction	3
Speech	210*	Speech for the Teacher	3
Drama	221*	Oral Interpretation	2
Speech	237*	Persuasive Speaking	2
or			or
Speech	240*	Group Discussion	3
Drama	251*	Acting	2
Drama	336*	Play Directing	2
Drama	337	Play Directing Practicum	1
Drama	338*	Children's Drama	3
Drama	339	Creative Drama Practicum	1
or			or
Drama	340	Children's Theatre Practicum	1
Speech	430	Speech Correction	3

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*Courses marked with an asterisk must be completed prior to admission to the I.P.P.

Model Schedule
Speech and Drama—Drama Option
Bachelor of Arts Degree
Major—34 hours

First Year

Semester 1		Semester 2	
Speech 101 Fundamentals of Speech	3	Drama 151 Play Production	2
Speech 105* Voice and Diction	3	Drama 152 Theatre Workshop	1
Drama 120* Theatre Appreciation	2	Drama 221** Oral Interpretation	2
Eng. 104 Written English	3	Eng. 108 Advanced Written English	3
History & Soc. Science (Psy. 101, Introd. to Psychology I)	3	History & Soc. Science (Soc. 110, Introductory Sociology)	3
Minor Field	3	Phys. Ed.	3
		Minor Field	3
	17		15

Continued

Second Year

Semester 3	
Drama 251 Acting	2
Drama 260* Theatre History (alternate years)	3
Eng. 250 Survey of English Lit.	3
History & Soc. Science (Hist. 111, History of Civilization I)	3
Fine Arts*** (Art 255, Hist. and Appreciation of Art)	2
Minor Field	3
	16

Semester 4	
Drama 270** Intro. to Theatrical Design (alternate years)	3
Drama Elective	1-2
Eng. 260 Survey of American Lit.	3
History & Soc. Science (Hist. 112, History of Civilization II)	3
Minor Field	6
	16-17

Third Year

Semester 5	
Speech 130* Intro. to Broadcasting	2
Drama 252 Acting Workshop	1
Drama 301 Theatrical Make-up	1
Drama Elective	1-2
Language	3
Minor Field/Elective	9
	17-18

Semester 6	
Drama 336** Play Directing	2
Drama Elective	4
Language	3
Minor Field/Elective	6
	15

Fourth Year

Semester 7	
Drama 337 Play Directing Practicum	1
Drama Elective	1-2
Language	3
Science-Math	3
Minor Field/Elective	9
	17-18

Semester 8	
Drama Elective	1-2
Language	3
Science-Math	3
Minor Field/Elective	9
	16-17

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*Offered First Semester Only
**Offered Second Semester Only
***Music 205 also recommended.

Minor—28 hours

The same major courses and their sequence (with exception of required elective courses) should be followed for a Speech and Drama—Drama Option (Minor).

Speech and Drama—Speech Communication Option
Bachelor of Arts Degree
Major—34 hours

First Year

Semester 1		Semester 2	
Speech 105* Voice and Diction	3	Speech 101 Fundamentals of Speech	3
Speech 130* Introd. to Broadcasting	2	Speech 134** Radio/Television Production	3
Drama 120* Theatre Appreciation	2	Eng. 108 Advanced Written English	3
Eng. 104 Written English	3	Hist. & Soc. Science (Soc. or Pol. Sc.)	3
History & Soc. Science (Psy. 101, Introd. to Psychology I)	3	Phys. Ed.	1
Minor Field	3	Minor Field	3
	16		16

Second Year

Semester 3		Semester 4	
Speech 237 Persuasive Speaking	2	Speech 240** Group Discussion	3
Speech 243* Argumentation & Debate	3	Speech Elective	1-2
Eng. 250 Survey of English Lit.	3	Drama 221** Oral Interpretation	2
History & Soc. Science (Hist. 111, History of Civilization)	3	Eng. 260 Survey of American Lit.	3
Fine Arts (Art 255, History and Appreciation of Art)	2	History & Soc. Science (Hist. 112, History of Civilization II)	3
Minor Field	3	Minor Field	3
	17		15-16

Third Year

Semester 5		Semester 6	
Speech Elective	1-2	Speech 245** Oratory	1
Language	3	Speech 401** Extemporaneous Speaking	1
Science-Math	3	Speech Elective	1-3
Minor Field/Elective	9	Language	3
		Science-Math	3
		Minor Field/Elective	6
	16-17		15-17

Fourth Year

Semester 7		Semester 8	
Speech 430*** Speech Correction	3	Speech Elective	1-2
Speech Elective	1-2	Language	3
Language	3	Minor Field/Elective	12
Minor Field/Elective	9		
	16-17		16-17

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*Offered First Semester Only

**Offered Second Semester Only

***Advised to take in sophomore year if planning to enter Speech Therapy.

Minor—28 hours

The same major courses and their sequence (with exception of required elective hours) should be followed for a Speech and Drama—Drama Option (Minor).

Speech and Drama
Single Teaching Field, Grades 7-12
32 hours

First Year

Semester 1	
Speech 105* Voice and Diction	3
Speech 130* Introd. to Broadcasting	2
Eng. 104 Written English	3
History and Soc. Science	3
Phys. Ed.	1
Second Field	3
	15

Semester 2	
Drama 151 Play Production	2
Drama 152 Theatre Workshop	1
Drama 221** Oral Interpretation	2
Eng. 108 Advanced Written English	3
History & Soc. Science	3
Art 255 Hist. & Appreciation of Art	2
or or	or
Music 205 Music Appreciation	2
Second Field	3
	16

Second Year

Semester 3	
Speech 210 Speech for the Teacher	3
Drama 251* Acting	2
Eng. 250 Survey of English Lit.	3
History & Soc. Science	3
Educ. 200 Introduction to Education	2
Second Field	3
	16

Semester 4	
Speech 237 Persuasive Speaking	2
Speech/Drama Elective	1-2
Eng. 260 Survey of American Lit.	3
History and Soc. Science	3
Educ. 250 Foundations of American Education	2
Second Field	3
	14-15

Third Year

Semester 5	
Speech 243* Argumentation & Debate	3
Speech/Drama Elective	2-3
Educ. 302 Human Growth & Development	3
Science-Math	3
Second Field/Elective	4-6
	15-18

Semester 6	
Speech 245** Oratory	1
Drama 336** Play Directing	2
Speech/Drama Elective	1-3
Educ. 303 Educational Psychology	3
Science-Math	3
Second Field/Elective	6-9
	16-20

Fourth Year

Semester 7	
Speech 430 Speech Correction	3
Drama 337 Play Directing Practicum	1
Speech/Drama Elective	1-2
Second Field/Elective	12
	17-18

Semester 8	
Speech 431** Methods & Materials in Teaching Speech & Drama	2
Initial Performance Practicum	13
	15

Speech and Drama
Subject Specialization, Grades 1-9, 7-9
22-23 hours

First Year

Semester 1		Semester 2	
Speech 105 Voice and Diction	3	Drama 221** Oral Interpretation	2

Second Year

Semester 3		Semester 4	
Speech 210 Speech for the Teacher	3	Speech 237 Persuasive Speaking	2
Drama 251* Acting	2	or or	or
		Speech 240** Group Discussion	3
		Drama 338 Children's Drama	3

Third Year

Semester 5		Semester 6	
Drama 340* Children's Theatre Practicum 1 *or*		Drama 336** Play Directing	2
		Drama 339** Creative Drama Practicum	1

Fourth Year

Semester 7		Semester 8	
Speech 430 Speech Correction	3	Initial Performance Practicum	
Drama 337 Play Directing Practicum	1		

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*Offered First Semester Only
**Offered Second Semester Only

Courses of Instruction
Speech and Drama

Drama

120. Theatre Appreciation **two hours**
Study of drama as it occurs on stage, in movies, and in radio and television in order to form a critical appreciation of its purpose and effects. Alternate semesters.

151. Play Production **two hours**
Lecture course introducing the student to the principles and techniques of the organization, planning, and execution of technical theatre production, including scenery, properties, lighting, costuming, sound, and stage management.

152. Theatre Workshop **one-four hours**
Crew work is assigned to Masquers productions, studio theatre productions and/or reader's theatre. Opportunities for experience in all areas of technical theatre such as scenic construction, property, lighting, costume, and sound crews, depending

upon the proficiency of the student. One hour of credit taken concurrently with Speech 151 is required of all AB Majors and Minors in Speech and Drama (Drama Option) and AB in Education with teaching fields in Speech and Drama (grades 7-12) and Language Arts Comprehensive (grades 7-12). No more than one hour can be earned during a semester.

221. Oral Interpretation **two hours**
An introductory study and practice of the principles involved in understanding the meaning of prose, poetry, and dramatic literature and in the effective oral and/or bodily transmission of that meaning to a listening and/or viewing audience. PR: Speech 105 or consent.

222. Advanced Oral Interpretation **two hours**
A study of the special problems of oral interpretation in the areas of prose, poetry, and dramatic literature. Alternate years. Not a substitute for Drama 221. PR: Drama 221 or consent.

223. Oral Interpretation Practicum **one-four hours**
Preparation for and participation in public performances and intercollegiate competitions and festivals in oral interpretation. Maximum credit earned a semester is one credit hour. PR: Drama 222 and/or consent of instructor.

251. Acting **two hours**
Introduction to the theory and practice of fundamental acting techniques for the stage. Alternate semesters. PR: Drama 221 or consent.

252. Acting Workshop **one-four hours**
Public performance or the equivalent in Masquers or studio theatre dramatic productions. Maximum credit earned a semester is one credit hour. PR: Consent.

260. Theatre History **three hours**
Historical examination of the major theatrical periods through a study of the important playwrights, theorists, and other practitioners of each era. Alternate years.

270. Introduction to Theatrical Design **three hours**
An introduction to the principles of theatrical design, including scenic, lighting, and costume design. Alternate years. PR: Consent.

301. Theatrical Make-up **one hour**
Fundamentals of the theory and technique of designing and applying theatrical make-up, including laboratory experience and practical experience with Masquers productions and studio theatre productions.

302. Advanced Theatrical Make-up **one hour**
Practice in advanced design and application of theatrical makeup. Assigned to Masquers productions and studio theatre productions. (Formerly Speech 301L Advanced Make-up). PR: Drama 301.

321. Summer Theatre: Rehearsal and Performance **one-three hours**
Systematic rehearsal and public performance with the Masquers Town and Gown Players (community-college summer theatre). Designed for students who desire concentrated stage training and experience. Roles assigned dependent upon directors' selection and hours credit desired. PR: Auditions.

322. Summer Theatre: Production and Management **one-three hours**
Experiences provided in every phase of theatrical production and some phases of theatre management in conjunction with the Masquers Town and Gown Players (community-college summer theatre). Experiences include set designing and constructing, lighting, costuming, make-up, box office, house managing, and publicity. Assignments dependent upon hours credit desired. PR: Consent.

336. Play Directing **two hours**
Principles and techniques of play directing. Special attention given to directing problems in educational theatre: play selection, budgeting, casting, mounting, and staging, public relations, and coordination of crafts. Alternate semesters. PR: Drama 151, 152 and/or Drama 251 and consent.

337. Play Directing Practicum **one hour**
Direction and public presentation of a one-act play. (Formerly Speech 336L, Play Directing Laboratory). PR: Drama 336 and consent.

338. Children's Drama **three hours**
A lecture course providing an introduction to the theories and techniques involved in both creative drama for children and children's theatre. (Formerly Speech 331, Children's Drama).

339. Creative Drama Practicum **one hour**
Theories and techniques learned in Drama 338 are applied in supervised guidance of children in creative drama experiences. (Formerly Speech 331L, Children's Drama Laboratory). PR: Drama 338 and consent.

340. Children's Theatre Practicum **one hour**
The student's practical application of theories and techniques learned in Drama 338 through auditioning for and working technical crews for a Masquers, Jr. (children's theatre) production. (Formerly Speech 331L, Children's Drama Laboratory). PR: Speech 338 and consent.

441. Directed Study in Drama **one hour**
The student selects directed study in any area of theatre which is not treated in the drama course offerings. Course is designed by student and selected faculty with approval of department chairman. Open to Juniors and Seniors only. PR: Consent of instructor and Department Chairman.

Speech

101. Fundamentals of Speech **three hours**
Primarily concerned with the creation, organization, presentation, and analysis of oral messages. An introductory study of the elements of the human oral communication process.

105. Voice and Diction **three hours**
Theory and practice of speech science to provide basic information prerequisite to further speech and drama study and to improve the skills of the speaking voice. Open to speech and drama students and music students only. Alternate semesters.

107. Speech Improvement **two hours**
Designed for students who wish to improve the effectiveness of their speech (voice and diction). Training in pronunciation, enunciation, and voice production in order to develop standard speech. Therapy for major speech disorders is not administered. May not be substituted for Speech 105 requirement. Alternate semesters.

130. Introduction to Broadcasting **two hours**
Survey of the industry and its role in today's society. Historical development and current responsibilities of broadcasting. Organization of stations and their relation to networks. Federal regulations and industry codes. Technical aspects of radio and television. Brief consideration of programming and production techniques. Field trips to area commercial and educational stations. (Formerly Speech 330; Fundamentals of Radio and Television.) Alternate semesters.

134. Radio/Television Production **three hours**
Production of and participation in actual broadcasts. A study of the techniques used in programming, directing, continuity writing, and music and sound effects. Will

require outside class studio practice time. (Formerly Speech 334, Radio and Television Production, 2 hours). May not be substituted for Speech 130 requirement. Alternate semesters. PR: Speech 130 or consent.

200. Radio/Television Announcing **three hours**
Procedures and routines of announcing in both media. Staff assignments, regulations, logged broadcasting operation, reports, and government emergency procedures. Practice in reading of news, commercial and other types of broadcast copy. In-class production experience with opportunity of limited on-the-air announcing. Will require outside class studio practice time. PR: Speech 105 and 130 or 134 or consent.

210. Speech for the Teacher **three hours**
An introduction to principles and practices of effective oral communication for the classroom teacher with all study and practice directed toward the special speaking and listening needs of elementary and secondary classroom teachers and their students. PR: English 104, 108. Required of all A.B. in Education students.

237. Persuasive Speaking **two hours**
Designed to give advanced speech students training in the preparation, presentation, and critical analysis of persuasive speeches. PR: Speech 101 or 210 or consent.

240. Group Discussion **three hours**
Study and practice of principles, types and methods of group discussion as it relates to committees, policy-making groups, conferences, public forums, and classroom teaching. Alternate semesters. PR: Speech 101 or 210 or consent.

243. Argumentation and Debate **three hours**
A study of argumentation with practical application in educational debate. The national intercollegiate debate topic is researched and argued in class debates. Alternate semesters. PR: Speech 237 or consent.

244. Intercollegiate Debate **one-four hours**
Training for and participation in intercollegiate debate tournaments at colleges and universities throughout the Eastern United States. Credit is also given for researching the intercollegiate debate proposition for the current academic year. Maximum credit in any one semester is one hour. PR: Speech 243 or consent.

245. Oratory **one hour**
Study of origin, historical influences, and changing aims of oratory. Practice in development of memorized speeches for competition. Alternate semesters. PR: Speech 237 or consent.

250. Broadcast Continuity Writing **three hours**
Formats of all types of radio and television writing except dramatic scripts. Continuity for talks, interviews, discussion, music, variety, documentary programs, and commercials. Students may participate in studio productions or writing projects. Alternate semesters. PR: Speech 130.

300. Radio/TV Practicum **one-six hours**
Provides students with laboratory experience in both black and white and color television productions as well as mono-stereo audio productions. Opportunity to perform in both the technical and talent aspects of programs produced for public and campus dissemination. Students may earn a total of six credit hours at the rate of one-hour per semester. PR: Speech 134 and/or consent.

401. Extemporaneous Speaking **one hour**
Study or origin, aim and development of extemporaneous speeches. Preparation for competition. Alternate semesters. PR: Speech 237 or consent.

402. Public Speaking Practicum **one-four hours**
Preparation for and participation in public performances and intercollegiate competitions and festivals in public speaking, i.e., after-dinner, extemporaneous, oratory, etc. Maximum credit in any semester is one hour. PR: Speech 237 and/or consent.

430. Speech Correction **three hours**
An introduction to the field of speech therapy and audiology. Emphasis placed on identification of all speech defects, their diagnosis, and preventive and remedial techniques.

431. Methods and Materials in Teaching Speech and Drama **two hours**
Philosophy, methods, and materials of teaching speech and drama and of directing the speech and drama co-curricular and extra-curricular activities in the secondary schools. Fulfills Professional Block requirement for those with a single teaching field in speech and drama. Alternate semesters.

440. Directed Study in Speech **one hour**
The student elects directed study in any area of speech-communication which is not treated in the speech course offerings. Course is designed by the student and selected faculty with approval of department chairman. Open to Juniors and Seniors only. PR: Consent of instructor and Department Chairman.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE IN EDUCATION

(Division of Education)

The education of teachers at Fairmont State College is designed to utilize the cooperative functions of the academic disciplines and the Division of Professional Education. The philosophy of the College is that adequate preparation for teaching requires rich and comprehensive experience in the area of general education, concentration in a comprehensive or in two of the subject matter fields, and the development of certain attitudes, skills and understanding which characterize effective teaching. The West Virginia Board of Education has adopted a program of general and professional education which is required of all students preparing for teaching.

Teaching Fields and Specializations

Fairmont State College offers teaching curricula leading to the degree of Bachelor of Arts in Education. Students satisfactorily completing the teaching curriculum in a given area will qualify for a Professional Certificate, grades K-8, 1-9, 1-12, or 7-12.

In planning for a career in elementary or secondary teaching, students may qualify for an assignment in the following fields or specialization:

Subject Specializations (1-9 or 7-9)

Art
Early Childhood
French
General Science
Health Education
Home Economics
Language Arts
Mathematics
Music, Vocal
Physical Education
Speech
Social Studies

Special Education—Mental Retardation (K-12)

Single Teaching Fields (7-12)

Art
Biology
Business Education, Secretarial
Chemistry
English
French
General Shop
Health Education
Journalism
Mathematics
Physical Education
Physics
Speech

Comprehensive Teaching Fields (7-12)

Biological, General Science
Business Education
Chemistry, General Science
Home Economics—Vocational
Industrial Arts
Language Arts
Mathematics
Physics, General Science
Social Studies

Comprehensive Teaching Fields (1-12)

Art
Music

Teaching Field (K-12)

School Librarian

Specific field and specialization combinations for elementary and secondary education programs are identified in the sections entitled Teaching Curricula listed under the appropriate academic discipline or area of study.

It is the responsibility of candidates for a degree to know and to meet the general requirements of the College and the specific requirements of the chosen curriculum. It is the student's responsibility also to keep informed on his grade-point standing. All of this information may be obtained from the student's adviser or from the Associate Dean of Academic Affairs for Teacher Education.

Admission to Teacher Education

Any freshman may enroll in the first professional course, Education 200, Introduction to Education. Students are not expected, in this course, to make a decision or an application for admission to teacher education. But it is required of all teacher education students, though non-teacher education students may take it as an elective.

The "Student Information Form, T64," is to be completed and filed with the Division of Education before the completion of Education 200. A student will receive an I grade in this course until this form is filed.

In order to be eligible for enrollment in Education 302, Human Growth and Development, a student must be in good academic standing (i.e., he must not be on academic probation). The completion of Education 200 and 250 is also a requirement for enrollment in this course.

While enrolled in Education 302, those interested in pursuing the Teacher Education program shall make formal application by completing the form, "Application for Admission to the Teacher Education Program". To be accepted, the applicant must have a minimum quality point average of 2.0 overall and in each area of concentration or teaching field. He must have satisfactorily completed the required Written English courses and attain a C or better in English 108. He must, at the time of application, be passing Education 302. As a part of this application he must secure a favorable recommendation from the Health Department, the Social Dean, and his academic adviser.

Toward the close of the semester in which the student is enrolled in Education 302, the Selection Committee evaluates the information in his folder and arrives at one of the following decisions: Approved; Approved Conditionally; or Disapproved. The student is notified in writing of the Committee's decision, and he shall have the opportunity of appearing before the Committee if he is dissatisfied with its conclusions.

If a student has satisfactorily completed Education 302 and has approval of the Selection Committee, he is eligible to enroll in Education 303, Educational Psychology. While in this course, Teacher Education students shall make application for the Initial Performance Practicum.

Initial Performance Practicum

Fairmont State College has adopted the Initial Performance Practicum for scheduling student teaching. The significant features of the plan are (1) a semester is reserved for the student in which he or she will schedule a block of professional education subjects, including methods and student teaching; (2) a section of that semester will be used exclusively for student teaching; (3) during this period, the daily assignment for student teaching will comprise all hours the school is in session; (4) in addition to classroom assignments, student teachers will participate in the extra-curricular activities of the school and community.

One semester of the senior year will be used for scheduling a block of approximately 14-15 semester hours of professional education courses. To schedule the I.P.P. a student must meet the requirements for student teaching as described below. Students and advisers should understand that the I.P.P. requires exact planning during the early years of the college career as well as in the senior year. All general studies requirements of the College as well as the minimum requirements of the teaching field must be completed before the I.P.P. can be scheduled.

Eligibility for the Initial Performance Practicum is determined by the ability of the student to meet the following requirements:

a. Completion of 96 semester hours including 10 hours in education courses, and three-fourths of the required work in each teaching field or area of specialization. All courses in the teaching fields which are marked by an asterisk in this catalog must be completed before admission to the I.P.P.

   - b. Satisfactory completion of English 108, Advanced Written English, with a minimum grade of C, and Speech 210 with a minimum grade of C.
2. Divisional approval of the candidate's comprehensive field or two teaching fields and completion of professional education courses which are prerequisite to the I.P.P. courses.
3. The student must be of good moral character (i.e., his reputation among students, faculty and in the community must be exemplary).
4. Students must have an average of C or better:
   - a. On all semester hours to be counted toward graduation.
   - b. On all semester hours earned in the Division of Education.
5. Have a 2.2 quality point average in each teaching field or specialization.
6. Present a statement from the College Health Service showing that the student has been given a physical examination and found to be physically fit for assignment to student teaching.

Students will not be permitted to schedule courses outside the I.P.P. or extracurricular activities which will in any way interfere with the course work without the consent of the Academic Dean.

Student Teaching Experience

Student Teaching is required in all curricula and is evaluated on a basis of Pass, Incomplete, or Fail. Students must attain a C average in the course work portion of the I.P.P. in order to be eligible for the student teaching experience. Students must complete student teaching at the grade levels and in at least one of the teaching fields in which they expect to be certified. At the present time, student teaching experiences are provided in the public schools of Barbour, Marion, Harrison, Monongalia, Preston, and Taylor counties. All such experiences are cooperatively administered by College and public school personnel.

National Teacher Examination

All students in the Teacher Education Program are required to take the National Teacher Examinations prior to being recommended for graduation.

Summary of Degree Requirements

The requirements for the Bachelor of Arts in Education degree are the candidate must earn a minimum of 128 hours credit in approved subjects with a quality point average of 2.0, or better, for all courses attempted and for all professional courses; he must attain a 2.2 average in each teaching field or specialization and shall meet the general and specific requirements set up for the curriculum and teaching fields he elects.

College Recommendation Prerequisite to Certification

College recommendation shall take into consideration Chapter 18A, Section 3, Article 1, of the West Virginia School Law which reads "A certificate to teach shall not be granted to any person who is not a citizen of the United States and is not of good moral character and physically and mentally qualified to perform the duties of a teacher, and who shall not have attained the age of eighteen years on or before the first day of October of the year in which his certificate is issued; . . . "

The issuance of an original certificate shall require:

1. The recommendation of the Chairman of the Division of Education, in consultation with the supervisor of student teaching and chairman of the department offering the specialization in addition to the academic criteria, is expected to reflect satisfactory performance on the part of the applicant in a typical classroom situation.
2. An official statement that the approved program has been completed in full.

Teaching Curricula

Kindergarten through Grade 8

Each student who is qualifying for teaching in Kindergarten through Grade 8 shall complete the following:

I. General Studies

II. Professional Education

III. Specialization

(a) The Diversified Program for teaching in a self-contained classroom

and

(b) The Early Childhood Specialization

NOTE: Student Teaching is required in an approved self-contained classroom and an approved Early Childhood Center.

Grades 1 through 9

Each student who is qualifying for teaching and/or for school services in grades 1 through 9 shall complete the following:

I. General Studies

II. Professional Education

III. Specialization

a. The Diversified Program for teaching in a self-contained classroom

and

b. One subject specialization for team teaching and departmental teaching in grades 1 through 9

or

c. The curriculum for school Librarian K-12 may be included with the elementary curriculum. Library practice in an approved elementary or secondary school is required and is an integral part of the I.P.P.

d. The Early Childhood Specialization may be added to the elementary curriculum. Student teaching in an approved Early Childhood center is required.

e. The Mental Retardation Specialization may be added to the elementary curriculum. Student teaching in an approved Mental Retardation Center is required.

Grades 1 through 12

Each student who is qualifying for the teaching of Art or Music in grades 1 through 12 shall complete the following:

I. General Studies

II. Professional Education

To include methods and student teaching of the single subject specialization at both the elementary and secondary levels.

III. Specialization

Grades 1-12

Art—one comprehensive specialization

Music—one comprehensive specialization

Grades 7 through 12

Each student who is qualifying for teaching and/or school services in grades 7 through 12 shall complete the following:

I. General Studies

II. Professional Education

III. Specialization

a. One comprehensive field authorizing them to teach in grades 7 through 12 the related subjects which comprise the comprehensive specialization

or

b. Two single subject specializations for grades 7 through 12

or

c. One single subject specialization for grades 7 through 12 and one designed for grades 7 through 9, identical with the specialization required for grades 1 through 9

or

d. One single subject specialization for grades 7 through 12 and the teacher librarian specialization K-12. Library practice in an approved elementary or secondary school is required and is an integral part of the I.P.P.

GENERAL STUDIES REQUIREMENTS FOR THE BACHELOR OF ARTS IN EDUCATION DEGREE

Notice that it is possible to have met the minimum hours for General Studies requirements in each of the four areas and still **not** have reached the 40 hour minimum requirement.

Students changing to the A.B. Ed. Program who have credit for Speech 101 with a grade of C or better may substitute it for Speech 210.

Minimum 40 Hours

I. Humanities Minimum 17 hrs., Maximum 21 hrs.

Required:	
*English Composition 104, 108	6
Literature, English 250, 260	6
Speech 210	3
Art 255 or Music 205	2
Approved electives in humanities:	
Art 255 or Music 205 (not used above)	2
Philosophy 200	3

II. Social Sciences Minimum 12 hrs., Maximum 15 hrs.

Economics 200 or 201	3
Geography 210	3
History 107	3
History 108	3
**History 100	3
History 111	3
History 112	3
Political Science 103	3
Psychology 101	3
Sociology 110	3

III. Science and Mathematics Minimum 9 hrs., Maximum 12 hrs.

Elementary Students		
Math 110, 210		6
Biology 101, 102		6
OR		
Physical Science 201, 202		6
Secondary Students		
***Math 205 (required)		3
AND		
Physical Science		6
100 Scientific Methodology (required)	2	
and select two of the following:		
101 Astronomy	2	
102 Chemistry	2	
103 Geology	2	
104 Physics	2	
105 History of Physical Science	2	
OR		
Biology 101, 102		6
OR		
Chemistry 101, 102		8
OR		
Chemistry 105, 106		10
OR		
Geology 101, 102		6
OR		
Physics 101, 102		8

IV. Physical Education Minimum 1 hr., Maximum 2 hrs.
Any basic activity course.

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*Foundations 101, Basic Communications, is strongly recommended for those who do not meet certain minimum standards prior to enrolling in English 104.

**May not be taken by elementary students or those in a social studies field. Credit will not be given for History 111 and/or History 112 to those who have taken History 100.

***Math 111, 112, 115 or 116 or credit by CLEP may be substituted with permission.

Required Program of Professional Education for Bachelor of Arts in Education Degree

Ed.	200	Introduction to Education	2
Ed.	250	Social Foundations of Education	2
Ed.	302	Human Growth and Development	3
Ed.	303	Educational Psychology	3

Course areas which are included in the Initial Performance Practicum are as follows:

Curriculum for K-8 and 1-9

Ed.	401	Reading in the Elementary School	2
Ed.	402	Mathematics in the Elementary School	2
Ed.	403	Language Arts in the Elementary School	2
Ed.	404	Social Studies in the Elementary School	2
Ed.	420	Student Teaching Experience	6
		Student Teaching Seminars	0

Curriculum for Grades 1-12

Ed.	406	Principles and Practices of the Elementary School	2
	431*	Methods and Materials in (Appropriate Teaching Field)	2
Ed.	432	Evaluation in the Secondary School	2
Ed.	433	Instruction in the Secondary School	3
Ed.	421	Student Teaching Experience (Elementary)	3
Ed.	422	Student Teaching Experience (Secondary)	3
		Student Teaching Seminars	0

Curriculum for Grades 7-12

Ed.	430	Reading in the Secondary School	2
	431**	Methods and Materials in (Appropriate Teaching Field)	2
Ed.	432	Evaluation in the Secondary School	2
Ed.	433	Instruction in the Secondary School	3
Ed.	450	Student Teaching Experience	6
		Student Teaching Seminars	0

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*The student who elects a comprehensive field must include 431, Methods and Materials in the comprehensive area. If he elects to complete two single subject specializations, he may choose Methods and Materials in either specialization. Should he elect to complete a single subject specialization in grades 7 through 12 and one for grades 7 through 9, he is required to complete Methods and Materials in the 7 through 12 area.

Elementary Education, Grades 1-9

A. Required Diversified Program for self-contained classroom

*Art	353-354	Elem. Art Education I and II	4
*Biol.	101-102	Introduction to Biology	6
*Eng.	207	Children's Literature	3
*Geog.	210	Introduction to Geography	3
*Hlth.	310	School Health Programs	3
*P.E.	329	Physical Education for the Elementary School	3
*Hist.	107-108	United States History	6

*Hist.	111-112	History of Civilization	6
Hist.	302	West Virginia History	3
*Math	110	Mathematics for Elem. Teachers I	3
*Math	210	Mathematics for Elem. Teachers II	3
*Music	231-232	Elementary Music I, II	6
*Phys. Sci	201-202	General Physical Science	6
Poli. Sci.	103	American Government	3

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*Courses marked with an asterisk must be completed prior to admission to the Initial Performance Practicum.

B. Subject Specializations, Grades 1-9 or 7-9

Art	30 Sem. Hrs.
French	24
General Science	30
Health Education	25
Home Economics	26-27
Language Arts	24
Mathematics	13
Music, Vocal	31
Physical Education	25
Social Studies	36
Speech	22-23

C. Early Childhood Specialization

Students who are qualifying for a Professional Certificate, Grades 1-9, may wish to add the Early Childhood Specialization to their certificate.

Required Courses 22 Sem. Hrs.

*Art	353	Elementary Art Ed. I	2
*Education	310	Kindergarten-Primary Organization and Curriculum	3
Education	403	Language Arts in the El. School	2
*Music	231	Elementary Music I	3
*Drama	338	Children's Drama	3
*Drama	339	Children's Drama Practicum	1
or			
*Drama	340	Children's Theatre Practicum	1
*Speech	430	Speech Correction	3
*I.E.	386	Industrial Arts for the El. Teacher	2
*Home Ec.	330	Child Care and Development	3

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*Courses marked with an asterisk must be completed prior to the Initial Performance Practicum.

*Model Course Schedule General Studies and Diversified Elements of the Elementary Education Program

Semester 1		**Semester 2**	
Eng. 104	3	Eng. 108	3
Hist. 107	3	Hist. 108	3
Biol. 101	3	Biol. 102	3
Math 110	3	P.E. any basic activity course	1
Pol. Sci. 103	3	Art 255 or Ed. 200	2
	15		14

Continued

Semester 3	
Eng. 250	3
Hist. 111	3
Math 210	3
P.S. 201	3
Ed. 250	2
	14

Semester 4	
Engl. 260	3
Hist. 112	3
P.S. 202	3
Geog. 210	3
	12

Semester 5	
Hist. 302	3
Music 231	3
Eng. 207	3
Speech 210	3
	12

Semester 6	
Ed. 302	3
Music 232	3
Art 353	2
P.E. 329	3
	11

Semester 7	
Ed. 303	3
Art 354	2
Health 310	3
P.S. 412	2
	10

Semester 8	
Ed. 410	2
Ed. 402	2
Ed. 403	2
Ed. 404	2
Ed. 420	6
	14

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*Does not include specialization courses or electives.

*Model Course Schedule General Studies, Diversified and Early Childhood Specialization Elementary Education

Semester 1	
Eng. 104	3
Hist. 107	3
Biol. 101	3
Math 110	3
Pol. Sci. 103	3
P.E. any basic activity course	1
	16

Semester 2	
Eng. 108	3
Hist. 108	3
Geo. 210	3
Biol. 102	3
Art 255 or Music 205	2
Ed. 200	2
	16

Semester 3	
Eng. 250	3
Hist. 111	3
Math 210	3
P.S. 201	3
Ed. 250	2
	14

Semester 4	
Eng. 260	3
Hist. 112	3
Eng. 207	3
P.S. 202	3
I.E. 386	2
	14

Continued

Semester 5

Hist. 302	3
Music 231	3
Sph. 338	3
H. Ec. 330	3
Speech 210	3
	15

Semester 6

Ed. 302	3
Music 232	3
Art 353	2
P.E. 329	3
Spch. 339 or Spch. 340	1
Spch. 430	3
	15

Semester 7

Ed. 303	3
Art 354	2
Health 310	3
Ed. 310	3
Ed. 412	2
	13

Semester 8

Ed. 401	2
Ed. 402	2
Ed. 403	2
Ed. 404	2
Ed. 420	6
	14

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*Electives not included.

Courses of Instruction
Professional Education

200. Introduction to Education two hours

This course provides the student with an overview of the profession. Its primary purpose is to provide the student with the information prerequisite for formulating a realistic career decision and a professional commitment to teaching. It is a prerequisite for Education 302. It is recommended that students take this course in their freshman year.

250. Foundations of Education two hours

This course is an analysis of the foundations of education with special emphasis on the historical, philosophical, and sociological basis for programs of American education. Attention is focused on the emergent nature of the system. It is recommended for students in their sophomore year.

302. Human Growth and Development three hours

This course is an analysis of human growth and development from birth through adolescence. The influence of heredity and environment on the development of personality and behavior and the implications of these factors for learning in the educational setting are stressed. Observations in the public schools are required. PR: Education 200, 250, and 58 or more semester hours with a C average.

303. Educational Psychology three hours

This course is a representative survey of psychology as related to education. Its major thrust is the examination of prominent learning theories as they relate to the teaching-learning act in the public school setting. Observations in the public schools are required. PR: Education 200, 250, 302, admission to Teacher Education, and 76 or more semester hours.

310. Kindergarten-Primary Organization and Curriculum three hours

This course provides the student with an overview of the scope and sequence of early childhood organization and curriculum. Laboratory experiences with children of this age are required. PR: Education 302, 303 and consent of Division Chairman.

401. Reading in the Elementary School **two hours**
This course is an introduction to basic reading instruction in the elementary school; study of teaching methods, materials and resources related to reading skills development. PR: Admission to the I.P.P.

402. Mathematics in the Elementary School **two hours**
This course examines current materials and methods of instruction in elementary school mathematics with emphasis upon creative utilization of available materials and techniques. PR: Admission to the I.P.P.

403. Language Arts in the Elementary School **two hours**
This course examines current materials and methods of instruction in the elementary school language arts area with major emphasis upon creative utilization of available materials and techniques. Attention is paid to skill development in the areas of listening, handwriting, spelling and composition. PR: Admission to the I.P.P.

404. Social Studies in the Elementary School **two hours**
This course is a study of the objectives, materials, organization, and instructional techniques in the Social Studies appropriate to the elementary school program. PR: Admission to the I.P.P.

406. Principles and Practices of the Elementary School **two hours**
This course is designed to provide the 1-12 student with an overview of the total elementary school program. Attention is given to the contribution of his specialization to the total program of the elementary school. PR: Admission to the I.P.P.

420. Student Teaching Experience (Elementary) **six hours**
This course consists of full-time involvement in the teaching-learning act in a public elementary school setting. Students will observe, assist and teach under the supervision of a cooperating public school teacher and College personnel. This experience is evaluated on a pass, incomplete, or fail basis and does not affect the grade point average. PR: Admission to the I.P.P. and a C average for all professional education course areas in the I.P.P.

421. Student Teaching Experience (Grades 1-12) **three hours**
This course consists of full-time involvement in the teaching-learning act in a public elementary school setting. Students will observe, participate and teach under the supervision of a cooperating public school teacher and College personnel. This experience is evaluated on a pass, incomplete, or fail basis and does not affect the grade point average. PR: Admission to the I.P.P. and a C average for all professional education course areas in the I.P.P.

422. Student Teaching Experience (Grades 1-12) **three hours**
This course consists of full-time involvement in the teaching-learning act in a public secondary school setting. Students will observe, participate and teach under the supervision of a cooperating public school teacher and College personnel. This experience is evaluated on a pass, incomplete, or fail basis and does not affect the grade point average. PR: Admission to the I.P.P. and a C average for all professional education course areas in the I.P.P.

424. Educational Technology **three hours**
Through direct learning experiences, students will be able to identify the need for utilizing media, the characteristics and special needs of students to be served by them, and the bases for selecting the material most likely to achieve the planned objectives of instruction. Students will develop both hardware and software competencies in the utilization and production of the latest educational equipment and materials. They will be equipped to make the expert decisions of "when to use, what to use, with whom, for what purpose, and with what effect." PR: Ed. 302, 303 and/or consent of Division Chairman.

430. Reading in the Secondary School **two hours**
This course is designed to develop understanding of the reading skills essential to the content subjects and also to provide instructional techniques for extending reading skills in those areas. PR: Admission to the I.P.P.

432. Evaluation in the Secondary School **two hours**
This course is designed to acquaint students with the basic principles and practices of student assessment through the use of standardized and teacher-made tests. Simple statistical treatments of both types of tests are included. PR: Admission to the I.P.P.

433. Instruction in the Secondary School **three hours**
This course is designed to involve the student in planning and implementing effective instructional strategies, understanding principles of classroom management and control, and personalizing an approach to instruction for use in the student teaching experience. PR: Admission to the I.P.P.

450. Student Teaching Experience (Secondary) **six hours**
This course consists of full-time involvement in the teacher-learning act in a public secondary school setting. Students will observe, assist, and teach under the supervision of a cooperating public school teacher and College personnel. This experience is evaluated on a pass, incomplete, or fail basis and does not affect the grade point average. PR: Admission to the I.P.P. and a C average for all professional education course areas in the I.P.P.

COMMUNITY COLLEGE AND CONTINUING EDUCATION

As a multi-purpose institution Fairmont State College offers numerous two-year associate degrees and continuing education classes. It takes pride in its diversity of curriculum, for a multi-purpose campus is a more exciting place than a single-purpose institution. It offers a balanced curriculum, richly-varied curricular-related activities, and an active program of community and regional services to meet a multiplicity of needs. An openness and ease of access permits general career-occupational education for both full-time and part-time learning as a life-long process to all age groups.

The associate degrees are granted upon completion of 64 to 75 semester hours with a minimum 2.0 C grade average for all courses attempted and for those courses in the area of specialization. Application for the associate degree must be made while the student is enrolled at Fairmont State College. When applicable a student may elect to pursue a baccalaureate four-year degree by applying the course work completed under a two-year degree. The quality of instruction is identical for the two-year and four-year degrees.

Associate of Science Degrees are offered in the following academic programs:

Allied Health Technologies
  - Medical Laboratory Technology
  - Nursing
  - Radiologic Technology

Engineering Technologies
  - Construction
  - Drafting
  - Electrical-Electronic
  - Mechanical
  - Power
  - Printing

Business Technologies
  - Accounting
  - Clerical
  - Electronic Data Processing
  - Retail Management
  - Secretarial

Continuing Education

Non-credit continuing education classes (Continuing Education Units—CEU) at Fairmont State College are of short duration and are open to anyone who feels that he can benefit from them. Such classes are designed to be of cultural, avocational, or general interest. There are no requirements for admission. They are intended to serve the non-traditional-college-age members of the community. Grading is not awarded on the basis of a letter grade but merely on a credit or non-credit basis. Continuing Education Units are not applicable toward a college degree.

Continuing education sponsored conferences and workshops provide classroom and laboratory facilities and college instruction as a community service. In this way the College attempts to meet its professional-vocational responsibilities to industry, business, social service and public agencies, and interested individuals in upgrading their capabilities. The College takes pride in its role as a community center for pursuing cultural, personal improvement, avocational, and leisure-time activities.

MEDICAL LABORATORY TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE

The College is in a particularly advantageous position to coordinate a Medical Laboratory Technicians (MLT) Associate in Applied Science Degree because of its close proximity to both Fairmont General Hospital and Fairmont Clinic, the two cooperating medical institutions.

Thirty-two credit hours of general studies courses and a common core of allied health science courses are required. An additional thirty-eight credit hours are required in clinical lecture and laboratory experience coordinated with a twelve-month hospital-clinic laboratory rotation.

The MLT degree is designed in accordance with the standards and guidelines provided by the American Society of Clinical Pathologists (ASCP). Upon completion of the Associate Degree, students are eligible for certification examination as medical laboratory technicians by the American Society of Clinical Pathologists.

Model Schedule
Medical Laboratory Technology
(70 Credit Hours)

First Semester		Second Semester	
English 104	3	English 108	3
Math 205	3	Chemistry 102	4
Chemistry 101	4	Microbiology 205	3
Anatomy and Physiology 104	3	Psychology 101	3
Medical Laboratory Technology 101	3	Medical Laboratory Technology 102	3
	16		16

(All of the above courses must be completed prior to the clinical year.)

Summer

Third Semester	
Clinical Laboratory Orientation 200 (Twelve month hospital-clinic rotation)	6

Second Year

Fourth and Fifth Semesters	
Clinical Microscopy 201	3
Clinical Serology 202	2
Clinical Hematology 203	5
Immunohematology (Blood Bank) 204	4
Clinical Biochemistry 205	5
Clinical Microbiology 206	5
Electrocardiography 207	1
Electives	7
	32
	70

Courses of Instruction
Medical Laboratory Technology

MLT 101 **three semester hours**

The principles, practices, and history of medical technology and the relationship of the laboratory as part of the medical team is presented. Students will be orientated to medicine as a profession and the ethics involved.

MLT 102 **three semester hours**

Continuation of MLT 101 with emphasis on the practical aspects of medical technology. The student will be exposed to venipunctive techniques and certain manual techniques.

200 Clinical Laboratory Orientation **six semester hours**

Twelve month hospital-clinic rotation practicum.

201 Clinical Microscopy **three semester hours**

Lectures and laboratory practice in urinalysis, gastric analysis, pregnancy tests, and other procedures. Lectures will include relationships between test results and physiology of the human system as well as principles of test procedures.

202. Clinical Serology **two semester hours**
Lectures and laboratory practice dealing with antigen and antibody reactions in vitro. Relative physiology related to disease process is included in lecture material. Student will become competent in various methods of serial dilutions.

203. Clinical Hematology **five semester hours**
Lectures and laboratory practice in blood physiology and disease. Students will be trained in evaluating blood smears of both pathologic and nonpathologic conditions. Physiology of disease process will be included.

204. Immunohematology and Blood Bank **four semester hours**
Lectures and laboratory practice in blood banking and antigen-antibody studies dealing primarily with blood transfusions. All legal aspects of blood banking will be included as well as diseases related to the various biochemical constituents will be included.

205. Clinical Biochemistry **five semester hours**
Lectures and laboratory practice in procedures utilized in the clinical chemistry laboratory. Principles, reactions and diseases related to the various biochemical constituents will be included.

206. Clinical Microbiology **five semester hours**
Lectures and laboratory practice in clinical bacteriology, mycology and parasitology. Both pathogenic and non-pathogenic bacteria will be studied. Biochemical and serological identification methods will be used to identify the various bacteria. Diseases related to bacteria will be discussed.

207. Electrocardiography **one semester hour**
Lectures and practice dealing with ECG studies. Students will be taught the various techniques in electrocardiography.

NURSING EDUCATION

The two-year technical or semi-professional nursing program is designed to prepare beginning practitioners of nursing at the staff level. The curriculum includes a balance between nursing and non-nursing courses; learning experiences in the college and clinical laboratories make up a major portion of the nursing courses. Clinical laboratories may include the local hospital, clinics, schools, home for aged and the state hospital at Weston.

An overall quality point average of 2.0 and a 2.0 quality point average in nursing is required to continue in the program.

Graduates of the program are eligible to take the West Virginia State Board examination for licensure as a registered nurse.

It should be noted that applications for nursing exceed available space. Prospective applicants are advised to make early application for admission. Admission is based on a number of factors: quality of high school record, ACT score, maturity, post-high school experience, etc.

Nursing Curriculum
70 semester hours

First Year

Semester 1		Semester 2	
English 104, Written English	3	English 108, Written English	3
Nursing 101, Fundamentals of Nsg.	5	Nsg. 103, Medical-Surgical Nsg.	8
Home Ec. 110, Nutrition	2	Psychology 101 (General)	3
HTH 104, Anatomy and Physiology	3	Phy. Sci. 104, Physics	2
Phy. Sci. 102, Chemistry	2		
	15		16

Summer Session

Nursing 203, Psychiatric Nursing	6

Second Year

Semester 1		Semester 2	
Biol. 205, Technical Microbiology	3	Nsg. 205, Maternal and Child Health	8
Nsg. 202, Medical-Surgical Nsg.	8	Nsg. 204, Trends in Nursing	2
Speech 101, Fundamentals of Speech	3	Pol. Sci. 103, National Gov't	3
Soc. 110, Introductory Sociology	3	Elective (with consent of advisor)	3
	17		16

Courses of Instruction
Nursing

101. Fundamentals of Nursing **five hours**

The study of nursing care common to all patients and the scientific principles underlying that care. Topics include: factors affecting health; nurses' role in relation to patients' care; the use of problem-solving methods in planning care; development of basic interpersonal and technical skills. (4 hrs. lec., 4 hrs. lab.)

103. Medical-Surgical Nursing I **eight hours**

Study of the major health problems that affect all age groups. Emphasis is on the commonality of problems as they relate to nursing.

202. Medical-Surgical Nursing II **eight hours**

Continuation of Medical-Surgical I.

203. Psychiatric Nursing **six hours**

Concerned primarily with the area of functional disorders with major emphasis on interpersonal relationships, group relationships, the impact of hospital cultural patterns on patient therapy, newer methods of treatment, and the community aspects of the mental health problems. (Off campus summer session).

204. Trends in Nursing **two hours**

Concerned with the development of nursing as a profession and the rights and responsibilities of practitioners within the profession.

205. Maternal and Child Health Nursing **eight hours**

Family-centered approach to the care of the mother and child. Emphasis is on the normal maternity cycle, growth and development, and the community agencies available for care to infants and children. Deviations from health is limited to conditions found only in the general area of maternity and in the pre-adolescent age group.

RADIOLOGIC TECHNOLOGY ASSOCIATE IN APPLIED SCIENCE

This two-year Radiologic Technology degree is an affiliated program of Fairmont General Hospital and Fairmont State College. It provides an integrated professional radiologic technicians training which requires twenty-four credit hours of general studies courses, a common core of allied health science courses, and forty-six hours of Radiology courses. The degree requires a minimum of twenty-four months, including two summers to complete, and 2400 on-the-job hours supervised practical experience.

All radiologic instruction is taught by staff personnel at Fairmont General Hospital. The Medical Director of Radiology is a licensed physician, certified by the American Board of Radiology. A qualified Radiologic Technologist, registered by the American Registry of Radiologic Technologists, assists as clinical instructor and is responsible for coordinating the Hospital program with the College. The Hospital Medical Director of Radiology and the Director of Radiologic Technologists hold adjunct faculty status at the College.

Upon satisfactory completion of the degree, conferred by Fairmont State College, graduates are eligible to take the registry examination given by the American Registry of Radiologic Technologists. A certificate issued by the Registry recognizes the holder as a Registered Radiologic Technologist, R.T. (ARRT), which qualifies the technologist for membership in the American Society of Radiologic Technologists.

Model Schedule
Radiologic Technology
(70 Credit Hours)

First Year

First Summer Term		Second Summer Term	
Phy. Sci. 104: Physics	2	English 104	3
Medical Terminology 100	2	Radiographic Exposure 106	2
Film Critique 102	2		
	6		5

Fall Semester		Summer Semester	
Dark Room Technology 101	2	Emergency Technique 104	3
Anatomy and Physiology 104	3	Math 205	3
Radiographic Anatomy and Physiology 209	2	Contrast Media 105	2
Radiographic Physics 210	2	Pediatric Radiography 200	2
Radiographic Positioning 103	3	Practicum 208	6
Practicum 208	4		
	16		16

Continued

Second Year

First Summer Term		Second Summer Term	
Psychology 101	3	Phy. Sci. 102: Chemistry	2
Practicum 208	2	Practicum 208	3
	5		5

Fall Semester		Spring Semester	
English 108	3	Typing 101	2
Intra Oral Radiography 205	2	Speech 101	3
Special Procedures 204	2	General Review 207	2
General Review 206	2	Practicum 208	8
Practicum 208	6		
	15		15

Courses of Instruction
Radiologic Technology

100. Medical Terminology — two hours

To learn anatomical names of bones and organs of the body; to learn radiographic terms and their common abbreviations; to learn commonly used medical terms, prefixes and suffixes; to understand the meaning of such terms and their proper usage.

101. Dark Room Technology — two hours

To develop knowledge and skills necessary for efficient dark room procedure; to gain knowledge of chemical constituents of processing solutions, of development of X-ray film and dark room accessories; to understand various types of dark room and processing equipment.

102. Film Critique — two hours

To learn film quality pertaining to technique, positioning, and processing; to be able to observe the anatomical regions as viewed on X-ray film; to determine whether or not the radiographic is diagnostic for the Radiologist to read.

103. Positioning — three hours

To instruct radiographic positioning of the structures and organs of the body; to provide precise and detailed information on the various positions; and should be supplemented with practical instruction and application in the radiographic room, and be carefully correlated with an anatomy course.

104. Emergency Technique — three hours

To familiarize the student with the emergency cart to enable the physician to perform accurately with speed when an emergency crisis should happen; to acquaint the student with certain drug reactions as well as any pathological conditions.

105. Contrast Media — two hours

To acquaint the student with the common procedures in radiography involving the use of contrast media, the equipment and media used, and the reaction to these medias.

200. Pediatric Radiography — two hours

To demonstrate to the student the necessity of speed and accuracy in the specialized field of radiology; to give full knowledge of radiation protection, restraining, and differences in equipment and accessories.

204. Special Procedures **two hours**
To acquaint the student with the specialized and highly technical procedures in radiography, the equipment and opaque media used, and the general indications for each exam.

205. Intra Oral Radiography **two hours**
To provide the student with an understanding of the anatomy and contours of the teeth and mouth; to know the essential equipment and accessories used in dental radiography.

206. General Review **two hours**
Brief general review of all above subjects in preparation for the American Registry Examination.

207. General Review **two hours**
A continuation of 206.

106. Radiographic Exposure **two hours**
To understand the theory of X-ray technique and to correlate this with practical application; to devise a technique based on sound principles and practices.

209. Anatomy and Physiology **two hours**
To obtain a detailed knowledge of the various systems, structures, and organs of the body and their functions; to enable the student to interpret accurately requests for X-ray examinations; to properly position the area to be radiographed; to recognize the structures and organs visualized and to understand normal body functions.

210. Physics **two hours**
To teach the fundamentals of electrical and radiation physics and the basic principles of the operation of X-ray equipment.

208. Practical Experience **twenty-nine hours**
To use the knowledge from the above subjects to obtain the best possible diagnostic radiographic; to assist the radiologist and to give the best of care to all patients.

Accounting Curriculum

Two-Year Accounting **64 Sem. Hrs.**

Required Courses:

Business	141	Business Mathematics	3
	201, 202	Principles of Accounting	6
	301, 302	Intermediate Accounting	6
	306	Business Law	3
	406, 407	Federal Income Tax Accounting	6
Economics	201, 202	Economic Principles and Problems	6
EDP	100	Introduction to Electronic Data Processing	3
English	104, 108	Written English	6
Psychology	101	Introduction to Psychology I	3
Speech	101	Fundamentals of Speech	2 or 3
or 107			
Recommended:			
Business	404	Cost Accounting	3
Electives			16-17

First Year

Semester 1		Semester 2	
Business 141	3	Speech 101 or 107	2-3
Business 201	3	Business 202	3
Economics 201	3	Economics 202	3
English 104	3	English 108	3
Electives	4	EDP 100	3
		Electives	1-2
	16		16

Second Year

Semester 3		Semester 4	
Business 301	3	Business 302	3
Business 306	3	Business 407	3
Business 406	3	Psychology 101	3
Business 404	3*	Electives	7
Electives	4-7		
	16		16

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*On Recommendation of Advisor only.

Clerical Curriculum

Two-Year Clerical **64 Sem. Hrs.**

Required Course:

Business	102	Introduction to Business	3
	141	Business Mathematics	3
	201, 202	Principles of Accounting	6
Bus. Educ.	101, 102	Beginning and Intermediate Typewriting	4
	211	Advanced Typewriting	2
	251	Business Correspondence	2
	303	Principles and Practices of Filing	2
	311	Office Machines	2
	351	Secretarial Office Practice	3
	351L	Secretarial Office Practice Lab	1
EDP	101	Punched Card Data Processing	2
English	104, 108	Written English	6
Home Ec.	103	Principles of Clothing Selection	2
Psychology	101	Introduction to Psychology I	3
Speech	101	Fundamentals of Speech	3
Electives			20

First Year

Semester 1		Semester 2	
Business 102	3	Business 202	3
Business 141	3	English 108	3
Business 201	3	Business Ed. 211	2
English 104	3	Psychology 101	3
Business Ed. 102	2	Home Economics 103	2
Business Ed. 303	2	Electives	3
	16		16

Continued

Second Year

Semester 3		**Semester 4**	
Business Ed. 251	2	Business Ed. 311	2
EDP 101	2	Business Ed. 351	3
Speech 101 or 107	2 or 3	Business Ed. 351L	1
Electives	9 or 10	Electives	10
Suggested List:		Suggested List:	
Business 301		Business 302	
Business 306			
EDP 100			
	—		—
	16		16

Note: Electives may be increased by two hours if Business Education 101 need not be taken. Also, it is offered only in the summer.

Electronic Data Processing Curriculum

Electronic Data Processing is a two-year Associate in Science degree program with an objective of job entry training for computer programmers, operators, and various data handling job titles requiring special computer training. The program is of an occupational training nature with emphasis on marketable skills required in the operation of a typical commercial or scientific computer installation. A secondary objective is to provide background training and general education that will allow graduates to move to management and systems analyst positions after initial employment and experience.

Equipment

IBM 1130 Computer System on campus

On-line terminal access to an IBM 360/75 computer system

Unit Record equipment including 9 card punch machines

Two-Year EDP **64 Sem. Hrs.**

Required Courses:

Business	201, 202	Principles of Accounting	6
	309	Industrial Organization and Management	3
EDP	100	Introduction to Electronic Data Processing	3
	101	Punched Card Data Processing	2
	102	Computer Logic and Flowcharting	2
	103	FORTRAN Programming I	3
	104	COBOL Programming I	3
	201	Assembler Programming	3
	*203	FORTRAN Programming II	3
	204	COBOL Programming II	3
	205	RPG, PL-1 and Conversational Programming	3
	210	Systems Analysis and Applications Seminar	4
	220	Operating Systems Seminar	4
	230	EDP Special Project	3
English	104, 108	Written English	6
Math.	111	Intermediate Algebra	3
	*112	Intermediate Mathematics I	
or			
Business	310	Statistics	3
Electives			10

*Students with interest in scientific programming should elect Math 112 and EDP 203. Students with interest in commercial programming may elect to substitute Bus. 310 and a second business course of their choice or any combination.

First Year

Semester 1		Semester 2	
EDP 100	3	EDP 103	3
EDP 101	2	EDP 104	3
EDP 102	3	Math 112 or Business 310*	3
Math 111	3	English 108	3
English 104	3	Business 201	3
Electives	3	Electives	1
	16		16

Second Year

Semester 3		Semester 4	
EDP 201	3	EDP 205	3
Business 202	3	EDP 210	4
EDP 203*	3-0	EDP 220	4
EDP 204	3	EDP 230	3
Business 309	3	Electives	2
Electives	1-4		
	16		16

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*Students with interest in Scientific Programming should elect Math 112 and EDP 203. Students with interest in Commercial Programming may elect to substitute Business 310 and a second Business course of their choice or any combination.

Courses of Instruction
Electronic Data Processing

EDP 100. Introduction to Electronic Data Processing **three hours**
Three hours lecture and discussion per week. This course will provide an introduction to the major in Electronic Data Processing as well as a familiarization course for those students not continuing in the field. The course will cover the nature of data processing with Electronic Accounting Machines and EDP systems. Students will be introduced to the steps in data processing, computer hardware, programming languages, and computer application. Skill in programming with the BASIC Language will be developed. PR: none. Not open to students with credit in higher level EDP courses.

EDP 101. Punched Card Data Processing **two hours**
Three hours lecture and lab per week. Punched card handling and Electronic Accounting Machine System operation. Instruction and practice in card-punching, sorting, collating, and report preparation. PR: none.

***EDP 102. Computer Logic and Flowcharting** **two hours**
Two hours lecture and discussion per week. First course in details of computer logic, word storage, computer arithmetic, and circuitry. Major emphasis is given to data processing problem analysis and planning with the flow-charting technique. Emphasis will also be given report design, print design, and record design. This course is a prerequisite for all courses in computer programming but may be taken concurrently. PR: none. Not open to students with credit in higher level EDP courses.

EDP 103. FORTRAN Programming I **three hours**
Three hours lecture and discussion per week. First course in FORTRAN IV computer programming. The language is developed through the level of subscripting. Students will program, prepare job decks and operate the computer for typical data processing jobs. PR: EDP 100, 102, or consent of instructor.

EDP 104. COBOL Programming I **three hours**
Three hours lecture and discussion per week. The introductory course for the major business programming language. Students will learn the COBOL language organization and be given practice in planning, writing, and processing COBOL programs. The COBOL language will require the development of a complete understanding of data, records, and files. PR: EDP 100, 102, or concurrent registration.

***EDP 201. Assembler Programming** **three hours**
Three hours lecture and discussion per week. The development of understanding and skill in computer programming at the Assembler level. Students will become more familiar with the internal operation of the computer, computer language, and programming efficiency. Data processing jobs are planned and processed using the Assembler language available on the computer system. PR: EDP 102.

***EDP 203. FORTRAN Programming II** **three hours**
Two hours lecture and two hours lab per week. Advanced course in programming and applications using the FORTRAN language. The student's knowledge of FORTRAN is developed to a level of sophistication that will allow immediate employment as a beginning programmer in the language. Course develops programming efficiency and advanced techniques. Time is devoted to programming and operations in the Computer Center. PR: EDP 103.

***EDP 204. COBOL Programming II** **three hours**
Two hours lecture and two hours lab per week. Advanced course in programming and applications using the COBOL language. The student's knowledge of COBOL is developed to a level of sophistication in the language. Course develops program-

ming efficiency and advanced techniques. Time is devoted to programming and operations in the Computer Center. PR: EDP 104.

***EDP 205. RPG, PL-I, and Conversational Programming** **three hours**
Two hours lecture and two hours lab per week. An introduction to miscellaneous and conversational level languages the student may encounter on the job. The basic languages will be developed and provide the student an opportunity to process jobs in each language. PR: EDP 103 and 104.

***EDP 210. Systems Analysis and Applications Seminar** **four hours**
Two hours lecture and four hours lab per week. Instruction and practice in planning complete information and data processing systems. This involves file maintenance, hardware planning, management, and processing job planning. Course is designed to focus all the student's early training on experience in complete data processing applications. Course is organized for the simulation of business and scientific computer data processing facilities. PR: EDP 203 and 204 or concurrent registration.

***EDP 220. Operating Systems Seminar** **four hours**
Two hours lecture and four hours lab per week. A comprehensive experience in computer operation. The course will develop an understanding and skill in utilization of the software support of the available computer system. The student is provided the opportunity to operate the computer system, encounter and cope with daily problems of a computer operation, and develop proficiency in the final phases of data processing in the computer installation. PR: EDP 203 and 204 or concurrent registration.

***EDP 230. EDP Special Project** **three hours**
The course may be taken during the summer or the last semester. Independent work by the student with an area computer installation or in the college computer center. Practical application and experience with a data processing project for which the student will have total responsibility. The student and program director will agree on the nature of the project necessary to satisfy the requirement. PR: EDP 203 and 204 or concurrent registration.

Retail Management Curriculum
64 credit hours

First Semester	
Intro to Business Bus. 102	3
Business Mathematics Bus. 141	3
Written English Eng. 104	3
Principles of Accounting Bus. 201	3
Elective	3
	15

Second Semester	
Written English Eng. 108	3
Retailing Bus. 300	3
Principles of Accounting Bus. 202	3
Personnel Management Bus. 308	3
Elective	3
	15

Third Semester	
Economic Prin. and Prob. Econ. 201	3
Small Business Man. Bus. 305	3
Advertising Bus. 320	3
Business Law Bus. 306	3
Marketing Bus. 304	3
Elective	3
	18

Fourth Semester	
Intro. to EDP EDP 100	3
Business Law Bus. 307	3
Salesmanship Bus. 205	3
Economic Prin. and Problems Econ. 202	3
Retail Field Experience Bus. 312	4
	16

Courses of Instruction
Retail Management

Bus 102 Introduction to Business 3 semester hours
A survey of the various fields of business designed to acquaint the student with the basic principles, practices, and employment opportunities of each field. The student is provided with the information of, and preparation for, the advanced courses in business.

Bus 141 Business Mathematics 3 semester hours
Designed to provide knowledge and skill in the computation of the practical problems of a business. The content helps form a sound basis for further study in the following areas: accounting, retailing, marketing, salesmanship, and business finance.

Eng 104 Written English 3 semester hours
Training in writing and speaking good English, including a short review of grammar, sentence structure, and punctuation; attention given to the organization and development of thought, both in student compositions and in expository reading material; guidance in the use of reference materials.

Eng 108 Advanced Written English 3 semester hours
A continuation of English 104 which stresses rhetorical principles. One of the writing projects is a research paper. PR: English 104.

Bus 201 Principles of Accounting 3 semester hours
Fundamental accounting theory and procedures: Organization of accounts, the accounting cycle, working papers and the preparation of financial and operating statements for individual proprietorships.

Bus 202 Principles of Accounting 3 semester hours
A further study of the accounting process as applied to various business organizations. The two semesters of this course are designed to give students an adequate understanding in the recording, clarifying and summarizing of business transactions in order to proceed with the interpretation and analysis of accounting data. This is a basic course for (1) accounting majors, (2) majors in other areas of business administration, and (3) those whose major interest is in economics, political science, law or other professional areas. PR: 201 Accounting.

Bus 300 Retailing 3 semester hours
Presents an overview of retailing, including such areas as organizational structure, merchandising practices and procedures, promotional activities, store planning and layout and control methods, thus providing technical and theoretical knowledge necessary for attaining middle management employment in this field.

Bus 305 Small Business Management 3 semester hours
Designed to familiarize the student with the management functions required to operate a small business. The problems and requirements for success are studied and the student learns how to succeed as an independent business entrepreneur.

Bus 308 Personnel Management 3 semester hours
A study of the field of personnel management and industrial relations including its background, development and modern practices.

Econ 201 Economic Principles and Problems 3 semester hours
Approaches from point of view of Macroeconomics covering the nature and method of economics and describing how the capitalistic system functions. Further study is made of the business cycle, fiscal policy, monetary policy, gross national product and similar concepts.

Econ 202 Economic Principles and Problems **3 semester hours**
Devoted to Microeconomics. It follows the analysis of the firm and the decisions made by the managers of the firm. It includes the analysis of demand and supply and price and output determination.
PR: Econ 201

Bus 320 Advertising **3 semester hours**
Covers the fundamental principles of merchandising through advertising and display. The study of advertising ranges from the planning stages through the creation of an advertisement. Stress is placed on observational activities to increase the student's awareness of merchandising techniques.

Bus 306 Business Law **3 semester hours**
A study of the nature and function of our legal system, courts and procedure including the law of contracts, agency and partnership.

Bus. 307 Business Law **3 semester hours**
A continuation of Bus. 306. Substantive law of corporations, sales, secured transactions, commercial papers and the legal basis of property as applied to business situations. PR: Bus 306

Bus 304 Marketing **3 semester hours**
Examines the distribution of goods and services from the standpoint of the businessman. Some topics covered are marketing activities, costs and profits, sales forces, middlemen, advertising, market research, product development, pricing, market environment. PR: Econ 201-202

Bus 312 Retail Field Experience **4 semester hours**
Students are placed in part-time retail occupations in carefully selected establishments consistent with their career objectives. The student has the opportunity to put theory into practice while developing competencies through on-the-job training. A total of 240 hours is required to be completed during four semesters.

EDP 100 Introduction to Electronic Data Processing **3 semester hours**
Provides an introduction to Electronic Data Processing with instruction on accounting machines and various EDP systems. Students are exposed to the steps in data processing, computer hardware, programming languages, and computer application. Skill in programming with the Basic Language will be developed.

Secretarial Curriculum

Two-Year Secretarial **64 Sem. Hrs.**

Required Courses:

Business	102	Introduction to Business	3
	141	Business Mathematics	3
Bus. Educ.	101, 102	Beginning and Intermediate Typewriting	4
	201, 202	Beginning Shorthand	8
	204	Secretarial Accounting	3
	211	Advanced Typewriting	2
	251	Business Correspondence	2
	301, 302	Advanced Shorthand and Transcription	8
	303	Principles and Practices of Filing	2
	311	Office Machines	2
	314	Dictation and Transcription	2
	351	Secretarial Office Practice	3
	351L	Secretarial Office Practice Lab	1
EDP	101	Punched Card Data Processing	2
English	104, 108	Written English	6
Home Ec.	103	Principles of Clothing Selection	2
Psychology	101	Introduction to Psychology I	3
Speech	101	Fundamentals of Speech	3
Electives			5

First Year

Semester 1		Semester 2	
Business 102	3	English 108	3
Business 141	3	Business Ed. 211	2
English 104	3	EDP 101	2
Business Ed. 102	2	Psychology 101	3
Business Ed. 303	2	Business Ed. 202 or electives	4
Home Economics 103	2	Electives	3
	15		17

Note: Business Education 201 must be taken if the student has not had shorthand. In this case, Business Education 102 and Home Economics 103 may be delayed.

Second Year

Semester 3		Semester 4	
Business Ed. 251	2	Business Ed. 204	3
Business Ed. 301	4	Business Ed. 302	4
Business Ed. 311	2	Business Ed. 314	2
Speech 101 or 107	2 or 3	Business Ed. 351	3
Electives	5 or 6	Business Ed. 351L	1
Suggested List: Business 306 EDP 100		Electives	3
	16		16

Note: Business Education 101 is offered only in the summer. It need not be taken if students have had previous training in this field. Electives will also be increased depending upon the students' training in shorthand.

ENGINEERING TECHNOLOGY

The Two-Year Engineering Technology Curriculum culminates in an Associate in Science degree. The Two-Year program permits those who desire to prepare themselves, in a short period of time, to accept industrial responsibilities in the occupational area between the craftsman and the engineer at the end of the area closest to the craftsman. Industry needs trained personnel to perform skillful and demanding processes, to supervise the work of others, and to assist technicians and engineers. If he chooses, the student may complete the work necessary for the baccalaureate degree without appreciable loss of credit.

The requirements for the options in construction, drafting, electrical-electronics, mechanical, mechanical power are listed below. The requirements for the printing technology option are listed separately at the end of this section.

GENERAL EDUCATION 29 Sem. Hrs.

Eng.	104, 108	Written English	6
I.E.	106	Applied Tech. Math I	3
I.E.	107	Applied Tech. Math II	3
Phy.	101, 102	Introduction to Physics	8
Econ.	200	Economics	3

Psych.	101	General Psychology	3
Bus.	309	Industrial Organization & Mgt.	3

FOUNDATION COURSES 34 Sem. Hrs.

103	Basic Electricity	3
112	Basic Electronics	4
121	Drafting	3
170	Statics	3
180	Materials & Processes of Industry	2
190	Industrial Orientation	1
191	Personnel Prob. & Labor Relations	2
270	Strength of Materials	3
271	Strength of Materials Laboratory	1
492	Work Study Seminar	4
493	Work Experience Laboratory	8

I.E. 492 and 493 may be waived for students who are employed full or part-time if such employment is approved by the Director of Technical Education.

Eight semester hours of credit in any one of the following groups, in addition to the foundation courses, will constitute a major unit of work in the respective area of specialization.

CONSTRUCTION TECHNOLOGY OPTION 8 Sem. Hrs.

164	Wood Technology	4
224	Architectural Drafting	4
366-466	Construction Theory & Lab. I & II	2-2
372	Surveying	2
375	Plumbing & Sanitation	2
376	Heating & Air Conditioning	2
392	Blueprint Reading	2-3

DRAFTING TECHNOLOGY OPTION 8 Sem. Hrs.

221	Graphic Illustration	2
224	Architectural Drafting I	4
225	Jigs, Fixtures and Machine Design	4
320-420	Drafting Room Techniques I & II	2-2
321	Structural Drafting	2
322	Architectural Design	2
422	Architectural Drafting III	2

ELECTRICAL-ELECTRONIC TECHNOLOGY OPTION 8 Sem. Hrs.

203	Electrical Measurements	4
206	Electrical Machinery	4
315	Industrial Electronics & Controls	2
316	Advanced Electronics I	2
317	Advanced Electronics II	2

MECHANICAL TECHNOLOGY OPTION 8 Sem. Hrs.

168	Welding I	4
171	Machine Shop	4
206	Electrical Machinery	4
225	Jigs, Fixtures and Machine Design	4
245	Hydraulics	2
345	Pneumatics	2
370-470	Manufacturing Processes I & II	2-2

POWER TECHNOLOGY OPTION (Mechanical) 8 Sem. Hrs.

148	Engine Theory I	4
149	Power Transfer Theory I	4
150	Carburetion & Ignition Theory I	4
151	Hydraulic & Suspension Systems I	4

Required hours for the Associate Certificate in technical education.

General education	29 Sem. Hrs.
Foundation Courses	34 Sem. Hrs.
Technical Option	8 Sem. Hrs.
Selected electives	4 Sem. Hrs.
Total	75 Sem. Hrs.

All Options Except Printing Technology

First Year

Semester 1	
PHY. 101 Introduction to Physics	4
MATH 101 Applied Tech. Math I or	3
I.E. 106 Mathematics for the Tech. I	(3)
I.E. 107 Mathematics for the Tech. II	(3)
ENGL 104 Written & Spoken English	3
I.E. 180 Materials & Processes of Ind.	2
I.E. 191 Personnel Prob. & Labor Rel.	2
I.E. 190 Industrial Orientation	1
	15 or 18

Semester 2	
PHY. 102 Introduction to Physics	4
MATH 102 Applied Tech. Math II	3
ENGL 108 Advanced Written English	3
I.E. 121 Drafting	3
I.E. 103 Basic Electricity	3
	16 or 13

Second Year

Semester 3	
ECON 200 Economics	3
PSY 101 Introduction to Psychology I	3
I.E. 170 Statics	3
I.E. 112 Basic Electronics	4
I.E. Option	4
	17

Semester 4	
BUS. 309 Industrial Organization & Mgt.	3
I.E. 270 Strength of Materials	3
I.E. 271 Strength of Materials Lab.	1
I.E. Option	4
Electives	4
	15

Semester 5	
Summer Work Experience I.E. 492—I.E. 493	12
	75

Course descriptions are found on pp. 154-164

Printing Techonology

First Year

Semester 1	
ENGL 104 Written English	3
PH S 201 General Physical Science	3
I.E. 180 Materials & Processes of Industry	2
I.E. 191 Personnel Problems & Labor Relations	2
I.E. 135 Printing Processes	3
BUS. ED. 101 or 102 Typing	2
	15

Semester 2	
ENGL 108 Written English	3
PH S 202 General Physical Science	3
I.E. 121 Drafting	3
I.E. 138 Composition & Photo Mech. Preparation	3
I.E. 236 High Contrast Photography	3
	15

Continued

Second Year

Semester 3

SOC 110 Introductory Sociology	3
I.E. 231 Image Transfer Mechanisms	3
I.E. 235 Estimating or I.E. 331 Commercial Graphics	3
I.E. 232 Continuous Tone Photo.	2
I.E. 237 Layout & Design	3
BUS 309 Industrial Organization & Management	3
	17

Semester 4

PSY 101 Intro. to Psychology I	3
I.E. 333 Printing Techniques I	2
I.E. 335 Printing Plant Mgt.	3
I.E. 433 Printing Techniques II	2
I.E. 434 Color Separation	3
I.E. 435 Printing Equipment Design & Maintenance	3
	16

Semester 5

Summer Work Experience I.E. 492—I.E. 493	12

Course descriptions are found on pp. 154-164.

SPECIAL CURRICULA

Pre-professional Curricula

Pre-professional work is offered in the following fields:

Dentistry
Law
Medicine
Medical Technology
Pharmacy

Since the majority of students doing such work will later enter the professional schools at West Virginia University, the courses have been prepared with the idea of meeting the requirements specified by University authorities for their own pre-professional students. Students expecting to enroll in other professional schools should procure a catalog from the school they expect to enter with advanced standing so that the course taken here will meet the requirements they need to meet. The pre-professional field advisor will assist students in making all necessary adjustments.

Pre-medical and Pre-dental Curriculum

Students planning to study medicine or dentistry should complete basic science courses as well as a broad range of general education courses with an average of B or better. A student should carefully consult the catalog of the professional school which he plans to attend. At West Virginia University, the School of Medicine requires a minimum of 90 semester hours of undergraduate work exclusive of physical education and ROTC courses for admission.

Pre-medical students should work towards fulfilling the requirements for the Bachelor Degree in either biology or chemistry.

The School of Dentistry requires applicants to have completed three or more academic years of work in the liberal arts.

The following courses will meet the minimum requirements for admission to the Schools of Medicine and Dentistry at West Virginia University:

Biol. 220, 221	8
Chem. 105, 106	10
Chem. 305, 306	8-10
Eng. 104, 108	6
Physics 101, 102	8

In addition, courses in the humanities and the social sciences are suggested in order to acquire a broadened intellectual background.

Pre-pharmacy Curriculum

National requirements for the study of pharmacy require five years of study beyond high school. The curriculum requires the completion of two years of pre-pharmacy and three years of study and training in a professional school of pharmacy. Prospective pharmacy students should plan their programs in such a manner as to insure meeting requirements of the particular professional school of pharmacy to which they wish to transfer. The following two-year preparatory program is suggested:

	First	Year	Second	Year
Course	Hrs.	Hrs.	Hrs.	Hrs.
Biology 101, 102	3	3		
Chemistry 105, 106; 305, 306	5	5	4	4
Economics 201, 202			3	3
English 104, 108	3	3		
Math 112, 115*	3	3		
Physics 101, 102			4	4
Electives from Arts and Humanities	3	3	3	3
Electives from Social Sciences			3	3

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*For students not required to take Math 112 and/or 115, Math 116 and 315 are strongly recommended.

Pre-medical Technology Curriculum

Medical technology is a four-year undergraduate program. The first two years may be taken at Fairmont State College. The entrance requirements of schools of medical technology throughout the nation vary considerably. A student should consult carefully the catalog of the school which he plans to attend. Students who have completed 64 semester hours including the following courses will be eligible for admission to the third year of the medical technology program at West Virginia University.

English	104, 108	Written English	6
Biology	101, 102	Introduction to Biology	6

Chemistry	105, 106	Chemical Principles	10
Chemistry	205	Analytical Chemistry	4
Chemistry	305, 306	Organic Chemistry	8
Physics	101, 102	Introduction to Physics	8
Mathematics	112	Intermediate Mathematics I or higher	3
Physical Education			1-2

Courses such as microbiology, biochemistry, and anatomy should not be taken prior to enrollment in the professional school.

Pre-law Curriculum

Fairmont State College offers no distinct pre-law curriculum. Law schools generally admit applicants with a bachelor's degree in any field. Students who plan to attend law school usually major in history, political science, or business administration.

AIR FORCE
ROTC
AIR FORCE R.O.T.C.

Air Force Reserve Officers Training Corps

The Air Force officer education program has been in existence at West Virginia University since 1946. A recent agreement permits participation in the university program by Fairmont State College students. Air Force ROTC is designed to provide training that will develop leadership abilities, managerial skills, and interpersonal attitudes vital to the professional Air Force officer. It is designed to qualify for commissioning those college men and women who desire to serve in the United States Air Force.

Students enrolled in the Air Force officer education program at West Virginia University may earn credit for transfer to Fairmont State College for the courses listed in this section. A maximum of 8 credit hours will be accepted for the first two years and a maximum of 12 hours for the second two years. An Approval of Courses and Permission to Earn Credits for Transfer form should be completed through the Registrar's Office before enrolling for these courses.

College Scholarship Program

Outstanding students from any academic discipline may apply to and be accepted by the Professor of Aerospace Studies at West Virginia University to compete for scholarships under this program.

For students awarded scholarships the government will pay for the cost of tuition, fees, and textbooks as well as provide a $100 tax-free monthly allowance.

Scholarships of this nature are available for two, three, and four years.

Benefits

Those enrolled in the Professional Officer Course and all scholarship students are eligible for:

1. An allowance of $100 per month during the academic year.
2. Space-available travel aboard government aircraft at no cost.

Flight Instruction Program

Students qualified and selected for the pilot category (IP) will be given ground instruction and 36½ hours of flight training at no cost. An intensive 15 hour ground instruction course for no credit is available within the Aerospace Studies Department. The ground instruction phase is normally completed during the first semester of the senior year. Flight training, conducted at Morgantown Municipal Airport, normally is taken by students during the second semester of their senior year. No effective credit is given for this instruction.

Distinguished AFROTC Graduate

The Professor of Aerospace Studies may designate as a Distinguished AFROTC Graduate a Professional Officer's Course member who:

1. Has a superior academic record and high AFOQT score.
2. Possesses outstanding qualities of leadership and high moral character.
3. Demonstrates leadership ability through achievement in recognized campus activities, both curricular and non-curricular, which, in conjunction with 1 and 2 above, warrants designation as "Distinguished."

Air Force Academy

The President of WVU may annually nominate three outstanding AFROTC students to be enrolled in the Air Force Academy. Applications for the nomination are recommended by the Professor of Aerospace Studies to the President, WVU, during January of each year.

Field Training

Applicants for the Professional Officer Course must attend a summer Field Training Course before entering their junior year. Students who have completed the GMC are assigned to a 4-week training unit; however, students who did not complete the GMC must attend a more intensive 6-week course. The Air Force will furnish uniforms, housing, medical care, and food, in addition to giving students round-trip travel allowance and military pay. Students who successfully complete Field Training then become eligible for the Professional Officer Course.

Curriculum

The curriculum in Air Force Aerospace Studies is divided into three distinct areas: the General Military Course, Corps Training, and the Professional Officer Course.

General Military Course

The Air Force course of study offered during the freshman and sophomore years is the General Military Course (GMC). This is composed of one class hour and one corps training hour per week. Two credit hours are allowed for each semester course successfully completed. Four semesters of the GMC is one means of admission to the Professional Officer Course. However, a two-year Professional Officer Course option is available for those students who do not complete the GMC.

GMC—first year

Air Force Aerospace Studies 1. 2 hr. Study of the doctrine, mission, and organization of the United States Air Force; U. S. strategic offensive and defensive forces: their mission and function.

Air Force Aerospace Studies 2. 2 hr. Aerospace defense; missile defense; U. S. general purpose and aerospace support forces; the mission, resources, and operation of tactical air forces, with special attention to limited war; review of Army, Navy, and Marine general purpose forces.

GMC—second year

Air Force Aerospace Studies 3. 2 hr. Critical analysis of the development of air power including doctrine, technology, organization and utilization; leadership and managerial communication skills are stressed by having students prepare both written and oral presentations.

Air Force Aerospace Studies 4. 2 hr. An extension of the previous course in which the development of airpower, doctrine, technology, organization, and utilization is analyzed with emphasis upon today.

Corps Training

Corps Training is taken an average of one hour per week throughout the student's enrollment in AFROTC. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop each student's leadership potential. Corps Training involves a study of Air Force customs and courtesies; drill and ceremonies; career opportunities in the Air Force; and the life and work of an Air Force junior officer. Students develop their leadership potential in a practical, supervised training laboratory, which typically includes field trips to Air Force installations throughout the United States.

Professional Officer Course

The Professional Officer Course (POC) corresponds to the junior and senior years of a student's academic course.

The Professional Officer Course is designed to provide highly qualified junior officers for the United States Air Force. Enrollment in the program is based upon such factors as scholarship, physical qualifications, leadership, desire for flying training, and academic major. Successful completion of the advanced course qualifies the student for appointment as a second lieutenant in the United States Air Force Reserve.

Instruction averages three hours per week throughout the four semesters in addition to the Corps Training hours required. Three hours of credit are allowed for each of the four semesters' work in the advanced program subsequent to acceptance by each school or college in the University.

To be eligible for enrollment into the POC, students must meet the following requirements:

1. Make application for the POC at the beginning of the second semester of the sophomore year.

2. Be physically qualified in accordance with Department of Air Force standards.

3. Be under 30 years of age at the time of commissioning, except that pilot and navigator applicants must not be older than 26½ years when commissioned.

4. Complete the GMC and field training courses or have equivalent credit in lieu thereof.

5. Pass the Air Force Officer Qualifying Test (AFOQT).

6. Have a minimum cumulative grade-point average of 2.0.

7. Have four semesters of undergraduate or graduate school remaining.

8. Enlist in the Air Force Reserve for a period of six years—eight years for those in the college scholarship program.

9. Execute a written agreement to complete the advanced course and attend a summer field training course.

10. Agree to accept a commission as a second lieutenant in the USAF Reserve and serve at least four years if not on flying status, or six years if pilot or navigator qualified.

11. Be accepted by the Professor of Air Force Aerospace Studies.

POC—third year

Air Force Aerospace Studies 105. 3 hr. PR: GMC or equiv. A study of American defense policy; strategy and the use of force; bureaucracy the technology; and military sociology. Leadership and managerial skills are stressed through both written and oral class presentations.

Air Force Aerospace Studies 106. 3 hr. PR: AFAS 105 or consent. Analysis of the current national security strategy of realistic deterrence and the management of defense resources; evaluation of modern aerospace weapons systems, space operations, and future roles and missions for the U. S. Air Force.

POC—fourth year

Air Force Aerospace Studies 107. 3 hr. PR: AFAS 105, 106 or consent. Intensive study of military law, management, command and staff policies, and seminar of leadership theory and career opportunities within the Air Force.

Air Force Aerospace Studies 108. 3 hr. PR: AFAS 105, 106, 107 or consent. Study of human relationships, problem-solving techniques, management and leadership case studies; seminar on the junior officer in the Air Force.

STUDENT SERVICES AND ORGANIZATIONS

Fairmont State College maintains many services to all students with the objective of assisting each student to adjust to his college environment. The Office of the Dean of Student Affairs coordinates and assumes responsibility for all activities and services directly affecting the welfare of each student. Such responsibilities include: health and food services, counseling center, freshman orientation, placement service, student employment, financial aid, student insurance, housing, social organizations, student government, and bookstore services.

Student Identification Card

All students enrolled for eight or more hours of credit must have an identification (I.D.) card. This card is used as identification for and admission to school activities. The picture for the card will be taken at the time of pre-registration in the summer or in the fall for students who do not pre-register. The student pays $1 for the card, which is good for the entire period of attendance. It must be validated in the Office of Associate Dean of Students each summer.

Student Counseling Center

The Student Counseling Center operates for the purpose of providing a setting whereby students may, with the help of a professional counselor, seek realistic decisions pertaining to academic-vocational or personal-social problems. The counselors are professionals trained in clinical practice and counseling psychology. All student records are treated as confidential information and set apart from other records of the college. No information is released on or off campus without the knowledge and written consent of the student. Students utilize the services of the Center on a strictly voluntary basis.

Institutional Testing Program

Several standardized comprehensive tests are essential for special groups of students.

American College Testing Program (ACT)

This test is required of all entering Freshmen. Registration for classes is contingent upon completing this test.

College Level Examination Program (CLEP)

This test is available for students to obtain credit in specific courses. It is given the third week of each month. Information and applications are available in the Counseling Center.

Graduate Record Examination (GRE)

This test is optional for students graduating with a Bachelor of Arts Degree (non-teaching) or Bachelor of Science Degree who expect to attend graduate school. This should be taken during the Senior year.

National Teachers Examination (NTE)

This test is required of students graduating with a Bachelor of Arts Degree in Education. These students must take the examination during the final semester or term of their Senior year.

Housing

Pence Hall is a modern dormitory providing living quarters for 132 men and a full-time resident director. It is located on the hill above the main portion of the campus and commands a splendid view of much of the campus and surrounding area.

Three modern, conveniently located residence halls are available for women. On campus are two dormitories—Morrow Hall, which was built in 1922 and renovated and refurnished in 1959, and North Hall which was completed in September, 1964. Morrow Hall provides living quarters for 122 women and a full-time resident director, and North Hall provides quarters for 150 women and a full-time resident director.

Off campus is Morgan Hall, which is privately owned but fully supervised by the College and conveniently located adjacent to the campus. Morgan Hall, built in 1965, provides living quarters for 84 women and a full-time resident director.

All residence halls feature built-in wardrobes, study desks, and book shelves. Within each residence hall there are facilities which create a homelike atmosphere. Included are lobbies, lounging and recreational areas, vending machines, and coin-operated laundry equipment.

Fees charged for residence in campus dormitories are listed under Residence Hall expenses.

Standards for Residence Hall Life

1. All unmarried freshman students who do not commute, or who do not reside with their families, are required to reside in a living-learning center of college housing so long as space is available.
2. All residence hall assignments are made for the entire academic year; and a student may not move or transfer from any residence hall, state or privately owned, except to graduate, to withdraw for the remaining part of the academic year, or to marry and live with spouse.
3. Applicants for room reservations must pay an $80 deposit at the time of application; this fee will be credited to the applicant's room rent account. Notice of cancellation must be received by the Office of Associate Dean of Students by June 15 or the $80 deposit is forfeited. A $20 breakage fee shall be deposited at the time of registration; this fee, less any damages, will be returned at the time of withdrawal from the residence.
4. All applicants for rooms and their parents or guardians are responsible for being familiar with the requirements for dress, the purchase of meal tickets, the code of behavior, and all other regulations that are listed and explained in residence hall handbooks.
5. The College reserves the right to limit to a certain class (freshmen) the dormitory rooms under its control.
6. The College reserves the right to limit the number of out-of-state students accepted to live in the residence halls under the control of the College.
7. Students who live in Pence, Morrow, or North Hall must buy a meal ticket for the Dining Hall. No evening meal will be served in the Dining Hall on Sunday.
8. Students who live in Pence, Morrow, North or Morgan Hall must subscribe to a linen service that supplies fresh bed linens and towels weekly.
9. A student who is absent from a residence hall for seven or more consecutive days will not be charged for meals, provided that the Food Service Director is notified in advance. No deduction in room rent, however, will be allowed regardless of the cause of absence. There is no refund of room rent to students changing residence during a term or semester, or to students withdrawing during a term or semester.

10. Room rental must be paid in full for a semester on or before registration day, and a meal ticket for half-semester or semester must be paid for on or before registration day.
11. Residence halls will be closed during the spring recess and during the Thanksgiving and Christmas vacations.
12. In cases where a preponderance of circumstantial evidence of stealing exists, the student's room will be searched in accordance with the *Student Handbook.*
13. Any residence hall student who is suspended or expelled from Fairmont State College for disciplinary reasons or any student who is given a choice of withdrawing from the College or appearing before the Hearing Board and who chooses to withdraw voluntarily instead of appearing before the Hearing Board, shall lose all rights to a refund of any tuition, fees, residence hall rent, or other payment made to the College.

Placement Service

A job placement service is available in the Office of Associate Dean of Students to all persons graduating from the college and to those who receive teaching certificates through the College's recommendation. All seniors are urged to register prior to graduation. Alumni who hold degrees or certificates are welcome to register. Assistance in placement in all fields of employment is offered.

Freshmen Orientation

Freshmen arrive on the campus in advance of other students. It is at this time that freshmen become acquainted with the campus, buildings, the academic program, various student activities, and student welfare in general. After scheduling classes, they become formally registered for their first semester of college work. Throughout the orientation period, freshmen are assisted and guided by trained student counselors who are sympathetic to the individual problems of students.

General Regulations

In matters concerning student rights, responsibilities, and social conduct, special reference should be made to the published *Student Handbook.*

Student Automobile Regulations

Because of the large number of cars used by students, traffic on the college campus is seriously congested. In the interest of safety and service, rigid regulations have become necessary. All parking is limited to defined areas, and restricted parking is established in certain areas.

All motor vehicles operated by students must be registered and properly identified by campus registration stickers.

Freshmen living in campus dormitories are not permitted to bring cars to the campus. All students living off campus, either at home or in college approved housing, and within one-half mile of the campus will not be permitted to park on campus during school hours.

Failure to comply with motor traffic regulations will result in the loss of parking privileges. In certain cases, parking illegally will result in the vehicle being towed away. Persistent violators and those who refuse to comply with requests on notices will be subject to having the car immobilized. Each student using a vehicle on the campus is expected to be familiar with the traffic regulations.

Specific reference should be made to the published handbook *Parking Regulations.*

Health Service

A physician and two registered nurses are available to examine and advise students in matters pertaining to their health. On school days from 8 a.m. until 7 p.m., a nurse is available in the college clinic in the Colebank Gymnasium for first aid and for the treatment of minor ailments of students and faculty. The college physician has regular campus office hours.

Group student hospital insurance is available to all full-time students at a very reasonable rate. Each prospective student is mailed information pertaining to this insurance prior to the opening of College in the fall.

Food Service

Buffet style breakfast, lunch, and dinner are served daily in the College Dining Hall with the exception of an evening meal on Sunday. Menus of a variety of foods are carefully planned to provide nutritive diets with an attractive service at a reasonable price.

Student Center Building

The Student Center is a modern, spacious building centrally located on the campus.

On the ground floor, a large area has been provided for the Bookstore and recreational rooms. The recreational rooms are available to students for playing pool, ping pong, chess, checkers and watching television. The campus snack bar is located on the second floor, providing fountain service, soft drinks, coffee, cigarettes and confections. Also on this floor are the Center business offices for staff members and three study areas for the students. A check cashing service is available from 8 a.m. until noon and 1 p.m. until 4 p.m. for students only. The top floor contains the ballroom with facilities for events such as teas and receptions. All facilities of the Student Center are available to student groups for meetings, parties, dances and other social affairs.

Bookstore

The Bookstore is located on the ground floor of the Student Center. All books, stationery, school supplies and various equipment that students need for classes may be purchased here. Also found here are items such as greeting cards, college jewelry, sweat shirts, jackets and various other items commonly sought on every campus.

Subscriptions for many magazines and a daily photo service are available. Stamps may be purchased and packages weighed for mailing. A printing service for napkins and match covers is available to college organizations.

Library Services

The library occupies the second and third floors of the Library/Learning Resources Center Building. The library facility features individual study carrels, many of which are equipped for the use of audio-visual materials.

The library is supportive of the academic programs of the College and therefore acquires a variety of informational resources. Books, journals and audio-visual materials pertaining to all areas of the curriculum are available. Moreover, materials not owned by the library may be secured through interlibrary loan.

The library presently contains some 120,000 volumes and subscribes to 575 periodicals. Many books and journals are maintained in microform for which the library provides appropriate reading facilities. As a selective depository for U.S. government documents, the library houses a collection of 8,000 government publications. Collections of filmstrips, kits, cassettes, records, slides, transparencies and other media are also housed in the library. All library materials are shelved in open stacks and are directly accessible to students and faculty.

The library fosters its role as an information agency by emphasizing personalized bibliographic and reference services to students and faculty. Trained personnel are always on duty when the library is open to encourage and assist individuals in their pursuit of information.

The learning resources center occupies the first floor of the building and is responsible for coordinating the application and use of educational technology for the campus. Specialized facilities for the production of films, slides, transparencies and graphic materials as well as recording and television studios are a part of the center. A large educational film rental library is also maintained by this facility.

Student Government Organizations

The Student Government Organization is composed of all students regularly enrolled in Fairmont State College. All of its officers are students and all business is conducted by them. Through this organization student programs and many other activities are undertaken. A student activity fee is collected from all students. This fee covers the cost of student activities and entitles the student to attend all athletic contests, major dramatic productions, and other special programs and to copies of the college newspaper and yearbook.

Student Government

The Student Government is the executive board of the student government organization. It consists of five student body officers, all class presidents, vice presidents, secretary-treasurers, and sergeants-at-arms, two members elected by the interfraternity-panhellenic council, five members elected by the non-fraternity group, one woman elected by the Associated Women Students, and one faculty adviser appointed by the President of the College.

One of the assignments of the Student Government is to meet annually to recommend to the President of the College the allocation of the student activity funds among the various campus activities and organizations. The budgets prepared are then published so that all students may know for what purposes their fees are being used.

Student and Faculty Social Cabinet

The Student-Faculty Social Cabinet is composed of representatives of students and faculty under the chairmanship of the vice president of the Student Government. The campus social program for the school year is arranged through this cabinet.

Interfraternity-Panhellenic Council

The Interfraternity-Panhellenic Council is an organization of all Greek letter social organizations. It governs the joint activities of the social fraternities and sororities.

Class Organizations

Each academic class has assigned activities and operates through its officers and the student government.

Clubs and Honor Societies

Fairmont State College students have organized a number of clubs and honorary organizations for the promotion of interest in various subject matter fields, for the recognition of outstanding achievement in various campus activities, and for general social purposes. A list of the currently active organizations of this character follows:

Clubs

American Chemical Society (FSC)
American Home Economics Assn. (FSC)
Associated Women Students
Behavioral Sciences Club
Black Student Union
Engineering Technology Society
Fellowship of Christian Athletes
Lettermen's Club
Masquers (Drama)
Men's Interfraternity Council
Music Educators National Conference
Newman Club
Student Education Association
Student Nurses Association

Independents
Industrial Arts Club
Interfraternity Panhellenic Council
International Relations Club
Inter-Varsity Christian Fellowship
Intramurals
Veterans' Association
Wesley Foundation
Women's Panhellenic Council
Young Democrats
Young Republicans

Honoraries

Alpha Alpha Alpha (Business)
Alpha Phi Gamma (Journalism)
Alpha Psi Omega (Drama)
Beta Beta Beta (Biology)
Blazers (Senior Women)
Delta Sigma Rho-Tau Kappa Alpha (Forensics)
Epsilon Pi Tau (Industrial Arts)
Flames (Junior Women)
Kappa Delta Pi (Education)
Kappa Gamma (Debate)
Kappa Pi (Art)
Lambda Delta Lambda (Physical Science)
Mu Alpha Tau Eta (Math)
Phi Epsilon Chi (Women's Phys. Ed.)
Pi Gamma Mu (Social Science)
Pi Kappa Phi (Foreign Language)
Sigma Alpha Iota (Women's Music)
Sigma Tau Delta (English)

Social Organizations

Fairmont State College students have organized and maintained a number of social fraternities and sororities. These organizations provide a medium for social activities and social training.

They are regulated by the Interfraternity and Women's Panhellenic Councils and the Interfraternity-Panhellenic Council, which strive toward high standards of scholarship and leadership among the groups and toward developing a good college spirit.

These organizations are listed below:

Fraternities
Alpha Phi Delta (National)
Sigma Pi (National)
Sigma Tau Gamma (National)
Tau Beta Iota
Tau Kappa Epsilon (National)
Theta Xi (National)

Sororities
Alpha Xi Delta (National)
Delta Zeta (National)
Phi Mu (National)
Sigma Kappa (National)
Sigma Sigma Sigma (National)

Religious Interests

Fairmont State College maintains a close relationship with the religious organizations of the city, including the Greater Fairmont Council of Churches. Announcements of services and special programs are posted on a bulletin board in the Administration Building.

Organized groups on campus are the Newman Center sponsored by the Roman Catholics, the Wesley Foundation sponsored by the United Methodist, United Presbyterian, Presbyterian U.S., Christian (Disciples of Christ) and Episcopal Churches as United Ministries in Higher Education, and the Inter-varsity Christian Fellowship. Services of ministers are available to the campus at all times through the Associates in Campus Ministry. The Associates serve as the liaison for religious interests with the Administration.

Publications

The Columns is the student newspaper published weekly throughout the regular college year with the exception of examination and vacation periods. The Publications Board, representing students and faculty, approves the selection of staff members from a list presented to the Board by the faculty advisor. Consideration is given to those students who have done acceptable work in journalism or who have had practical experience on publications. *The Columns* is named for the eight stately columns at the front of the Administration Building. It is financed by student fees and advertising.

The Mound is published annually by the students. The administrative officers of the staff are approved by the Publications Board from a list presented to the Board by the faculty advisor. All phases of college life are depicted in the annual, largely by pictures. It was named from an historic spot on a former campus. It is financed by student fees and advertising.

The Student Handbook, compiled annually under the direction of the Student Council, contains valuable information about Fairmont State College and its varied student activities.

The Student Bulletin is posted on the bulletin boards located prominently in each building. This bulletin carries announcements of all student activities. Material for the *Student Bulletin* should be left with the Dean of Student Affairs by noon Thursday. Bulletins are posted Friday morning for the following week. Students should consult the bulletin boards daily for important announcements.

Music Organizations

The Fairmont State College Marching and Concert Band is a uniformed band which presents concerts in Fairmont and other communities. This organization is open to both men and women.

The musical organizations of Fairmont State College—the Chorus and the Collegiates—provide opportunities for students interested in group singing. These groups present programs at the College assemblies, in neighboring communities, and on the radio. They also give annual public concerts. The Chorus is open to all students, but the "Collegiates" is composed of selected members of the College chorus. Operas are produced annually. The College-Community Symphony Orchestra is open to all students and members of the community.

Students may participate in college ensemble programs including the Stage Band and String, Brass, Woodwind, and Vocal Advanced Ensembles.

Forensics

(Public Speaking and Debate Activities)

Traditionally Fairmont State College offers a varied program for all students interested in public speaking and debate. Participation in all of these activities is open to any student at Fairmont State College.

Intercollegiate Debate

The Intercollegiate Debate Squad annually participates in 15 to 25 intercollegiate debate tournaments at colleges and universities throughout the Eastern United States. The debate squad also sponsors and participates in public exhibition debates, television and radio presentations and conducts the annual Fall Debate Workshop of the West Virginia Intercollegiate Speech Association.

Public Speaking

Students may participate in intercollegiate contests in oratory, extemporaneous speaking, persuasive speaking, student congress, and group discussion.

Theatre

Fairmont State College traditionally offers an active theatre program for both the theatre-goer and participants.

Masquers

The Masquers, since 1923 the student theatrical production organization, present four major plays of varied styles and periods usually in Wallman Hall during the fall and spring semesters. The plays are directed, designed, and supervised by the Speech and Drama Department faculty. Acting roles and positions on production crews are open to the student body on a voluntary or course credit basis. Performances are open to the public. Membership in the Masquers club is open to the student body and is earned through participation with the college theatrical productions.

Summer Theatre

Since 1960, the Masquers Town and Gown Players have presented four major plays during the summer semesters. Students enrolled in Summer Theatre (Drama 321-322) and Children's Theatre (Drama 340) work along with members of the Resident Company (selected experienced students receiving a grant for full-time technical work and acting) and interested members of the community to bring a season of light summer theatre fare (comedies, musicals, and children's plays) to Northern West Virginia theatre-goers and to provide a cultural, recreational, and educational outlet for all participants. The plays are directed, designed, and supervised by the Speech and Drama Department faculty and guest directors. Acting roles and positions on production crews are open to the public as well as the students, faculty and staff at Fairmont State College.

Masquers, Jr.

At least one play during the fall or spring semesters is presented, on tour or on campus, for a children's audience. It is produced in conjunction with

Drama 340, Children's Theatre Practicum, but participation through acting roles and production crews is often open to the student body.

Studio Theatre

Student directed and faculty directed one-acts are presented in the studio theatre (Room 314 FA). Acting roles and positions on production crews are open to the student body.

Honorary

Here in 1925 under the guidance of Dr. Paul F. Opp, Alpha Psi Omega, the national collegiate drama honorary had its beginning. Also here and under the guidance of Paul F. Opp, Delta Psi Omega, the national junior college drama honorary, and the Thespians, the national high school drama society, had their beginnings. Membership in the Alpha Cast of Alpha Psi Omega is earned through participation in collegiate productions. Since Spring 1969, the Alpha Cast of Alpha Psi Omega has sponsored the Annual Alpha Awards for outstanding performances during the fall and spring Masquers and studio theatre productions.

Reader's Theatre

The Fairmont State College Readers provide reader's theatre presentations at least once a semester in conjunction with Drama 221-222, 223. These performances are open to the public. Also, an active program in intercollegiate oral interpretation is offered.

M. M. Neely Oratory Contest

Interested students may compete with original oratory for cash awards in the annual M. M. Neely Oratory Contest held in May.

Radio and Television

"Campus Highlights," a bi-monthly radio program, is produced by the Radio/TV area of the Speech and Drama Department. It has been a regular feature of Radio Station WMMN since 1929. These programs are for the most part student productions. Any student at Fairmont State College may take part in the "Campus Highlights" series.

Several broadcast courses are offered which allow the student to become familiar with all major aspects of the educational and commercial broadcast industry. Complete audio and video tape facilities are available in a "learning laboratory" for those students involved in any of the various radio-television classes. For further information contact the Chairman of the Speech and Drama Department in Room 309 FA.

Intramural Sports

A regular program of intramural sports is sponsored for the benefit of all students. Teams, contests, and various activities are organized for competitive play among the various groups and organizations. The pool is open for intramural and recreational swimming at certain times. Such facilities as the conditioning room are open for individual and group participation. This is under the supervision of staff members who direct the overall program. Individual participation with selected equipment is offered for those interested and concerned with their own development, and not with team participation.

The intramural program includes the following activities: flag football, tennis, volleyball, basketball, wrestling, bowling, golf, softball, horseshoes, outdoor track, badminton, swimming, archery, and foul throwing.

Intercollegiate Sports

Fairmont State College sponsors an intercollegiate athletic program in football, basketball, baseball, cross country, golf, tennis, soccer, swimming, bowling, track, and wrestling. There are fine indoor and outdoor facilities and equipment for physical education and recreation. Every young man in college is free to participate in any one or more of the intercollegiate sports and in all recreational activities. The intercollegiate athletic program for women includes tennis, basketball, hockey, volleyball, softball, and swimming.

Athletic Policy

The program of intercollegiate sports at Fairmont State College is supervised by a Director of Athletics. He is assisted in the planning of the program by an athletic committee of the general faculty.

The general objectives of the intercollegiate sports program at Fairmont State College are to teach young men and women the values of sportsmanship, good physical conditioning, and the disciplinary and social values of organized team play. Specific values include the training afforded prospective coaches and physical education instructors through participation, and the possible acquisition, to some extent, of experiences and skills which may furnish recreational outlets following graduation.

In pursuance of the policies recommended by the North Central Association, the following minimum standards governing intercollegiate athletics are maintained:

1. The ultimate responsibility for the conduct of the athletic program rests with the President.
2. The members of the coaching staff are regular members of the faculty and have the same professional status, qualifications, salaries, and tenure as other faculty members.
3. Students participating in athletics are admitted by the Director of Admissions on the same basis as other students. Athletes are required to maintain the same academic standards as non-athletes.
4. The award of scholarships, student loans, and student employment to an athlete is made through the same agency of the College and on

the same basis as grants of aid to all other students. All employed students are required to give full and honest work for pay received.

5. All athletic funds are handled by the Business Manager of the College. An audit of the receipts and disbursements of these funds is made annually by the auditors of the West Virginia Tax Commissioner for the benefit of the West Virginia Board of Regents and other interested parties.
6. The College does not bring prospective athletes to the campus for tryouts, nor does it pay the expenses involved in college visitations by such persons.
7. An effort is made to compete only with colleges having similar educational and athletic policies.
8. Fairmont State College is a member of the West Virginia Intercollegiate Athletic Conference and the National Association of Intercollegiate Athletics, and athletic participation is regulated and controlled by the eligibility rules of the Conference. Copies of these rules are on file in the Office of the Director of Athletics.

Awards

At Recognition Day exercises, held near the close of each college year, awards are granted to students for outstanding achievements in various campus activities. Among these awards are the following:

For outstanding achievements in scholarship, leadership, service, and character, gold keys are presented to the Outstanding Seniors, selected by a faculty-student committee; certificates to the seniors elected to Who's Who Among Students in American Colleges and Universities; American Legion Medals to a senior man and senior woman; MENC plaques presented to outstanding senior and freshman music majors.

Medals and other prizes are presented to outstanding students in business administration, science, secretarial practices; cash awards by the Fairmont Woman's Club to the best freshman writer, to the most worthy senior girl by the American Association of University Women's Club through their Edna Earl Lowe Memorial fund, the Kappa Delta Pi—SEA award for the outstanding graduating seniors in elementary and secondary education. The Blazers, senior women's honor society, and Flames, junior women's honor society, announce at this time the names of the women of the junior class and sophomore class elected to these organizations.

Athletic awards are usually made during special sessions at athletic contests or at the annual athletic banquet.

Alumni

The Alumni Association of Fairmont State College is the official organization of all graduates and former students of the "old" Fairmont State Normal School, Fairmont State Teachers College, and Fairmont State College.

The history of the Alumni Association goes back almost to the founding of the institution. A meeting was held on Commencement Day, June 27, 1873, at which time the twenty-nine graduates formed the Association.

Events of special interest to alumni include the Annual Homecoming celebration during the fall semester. Festivities begin on Friday evening and continue through Saturday and include a parade, dinner banquet, business session and dance. During commencement weekend the class of 50 years ago return to the campus for a day's visit and dinner as guests of the Alumni Association and the college. This group of alumni who graduated 50 years ago or more automatically become members of the Emeritus Club. The unit was formed in 1963.

Information concerning the Alumni Association may be had by writing to the Alumni Secretary, Fairmont State College, Fairmont, West Virginia, 26554.

Regional Council for International Education (RCIE)

Fairmont State College is a member of the Regional Council for International Education, an association of 23 colleges and universities in Ohio, Pennsylvania, and West Virginia. Established in 1959, by educators seeking to introduce an international dimension to education, the Regional Council is to serve students, faculty and administrators of its member institutions, and is active in five areas: student programs, faculty development, research, publications and study abroad. Some examples of Regional Council programs are study abroad for undergraduates in Basel, Switzerland and Cuernavaca, Mexico; summer study for students in Japan; in country student workshops on topics of current international significance; faculty development seminars overseas; in-country Faculty Institutes for International Studies. Fairmont State College generally accepts credit for work done in the Council's Study Abroad programs. Participation in the Council's Student program is open to all Fairmont State College students.

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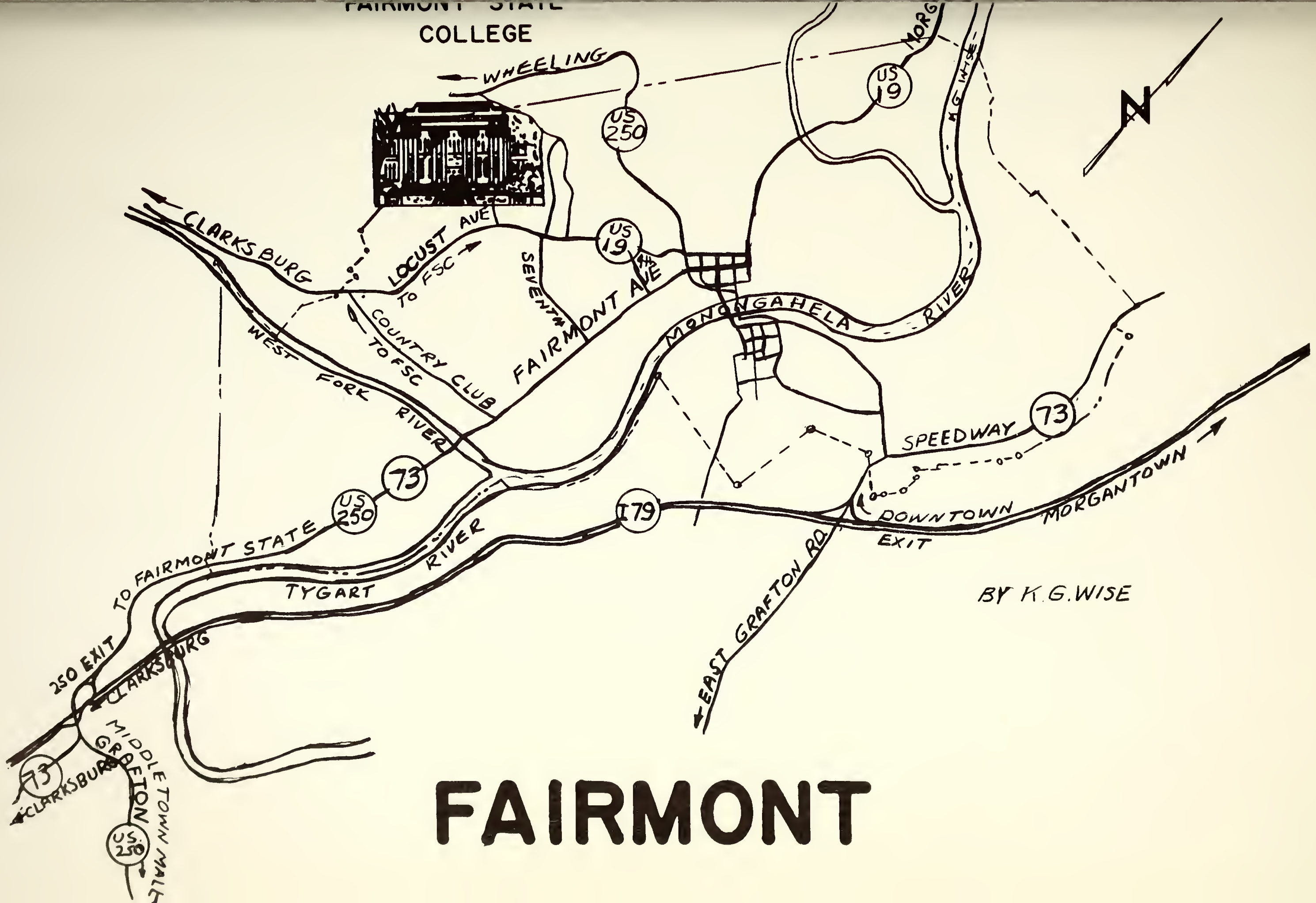
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